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PRINTED: 12-15-2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MCCRACKEN

ALTERNATE NAMES:

BLACKSMITH TUNNEL
ALTA
SENTAOR-SIGNAL
ATLANTA
MAGNUM MINING COMPANY

MOHAVE COUNTY MILS NUMBER: 429A

LOCATION: TOWNSHIP 13 N RANGE 15 W SECTION 25 QUARTER NE
LATITUDE: N 34DEG 26MIN 25SEC LONGITUDE: W 113DEG 46MIN 25SEC
TOPO MAP NAME: CASTANEDA HILLS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

SILVER OXIDE
LEAD
LEAD OXIDE
ZINC OXIDE
MANGANESE
GOLD LODE
BARIUM BARITE
CALCIUM CALCITE

BIBLIOGRAPHY:

ADMMR MCCRACKEN MINE FILE
"MINERAL AND WATER RESOURCES OF AZ" AZBM BULL
180, P 193, 255, 260; 1969
ELSING, M.J. "AZ METAL PRODUCTION" P 96; 1936
HINTON, R. "1000 OLD ARIZONA MINES" P 96
ADMMR AZ. INDUSTRIAL MINERALS RPT. NO 2, P 40
AZ. STATE MINE INSP. ANL RPT, P 15; 1970
ADMMR MOHAVE CUSTOM MILL PROJECT
HEWETT, D.F. "MIN. RES. ARND BLDR DAM, AZ"
USGS BULL 871, P 17; 1936
BANCROFT, H. "RECONN. OF DPSTS IN N YUMA CTY,
AZ" USGS BULL 451, P 123-126; 1911
ELSING, M. "AZ METAL PROD" AZBM BULL 140, P96
AZ. STATE MINE INSP. ANL RPT, 1960
BROBST, D.A. "BARITE" USGS BULL 1072-B, P 106

CONTINUED ON NEXT PAGE

CONTINUATION OF MCCRACKEN

MOORE, R. "TOMSTONE DIST" AZBM BUL 143, P 40
RABB, DAVID "REC. METAL VALUES" (ADMMR GEO F)
E&MJ 12/58, P 122; 09/67, P 73//MNG WRLD 6/59
AZ MNG JNL 2/20, P 35; 5/20, P 52; 12/15/21
P 9; 2/1/22, P 19; 2/15/22, P 14

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007



November 25, 1969

C
O
P
Y

Eugene R. Rowland, President
Rowland Engineering Co., Inc.
16 S. Central Avenue
Clayton, Missouri 63105

Dear Mr. Rowland:

In reply to your November 21st letter, we understand that Magnum Mining Company is active in the McCracken Mtn. area. We have no information as to their having filed an application for patent to any claims.

Applications for a patent are filed with the U. S. Bureau of Land Management, Room 3022, Federal Building, 230 North First Avenue, Phoenix 85025. No other notice is necessary with the exception that publication of such application notice must appear in the newspaper closest to the land for a number of weeks to notify those interested.

If you make inquiry of the Bureau of Land Management, it might simplify your request if you could furnish them the township and range of the lands about which you inquire.

If you feel we can be of further assistance, please feel free to write us.

Yours very truly,

FRANK P. KNIGHT, Director

by:

Adm. Assistant.

P

Arizona Department of Mines and Mineral Resources

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM-K083 Galena

MOHAVE CO.
60 mi. SE of Yucca
McCracken Mine

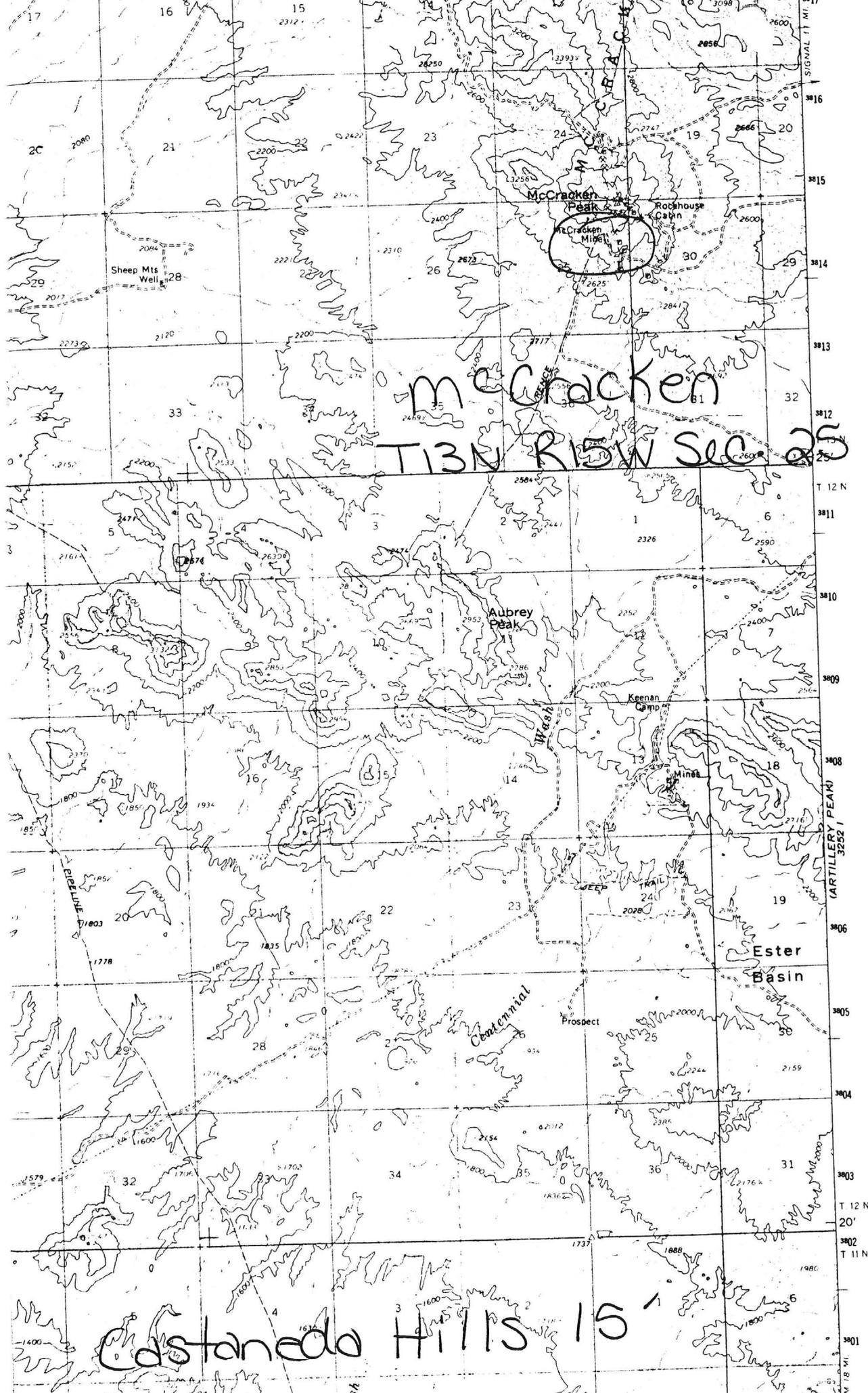
MILS # 429A

4-AKA's

McCracken (file)

Name of Mine or Prospect: Alta Mine (Signal Mine)	Township 13N	Range 15W	Section 24	Priority A
Principal Minerals: Silver, Lead	1:250,000 Quad Prescott		7.5' - 15' Quad Castaneda Hills	
Associated Minerals: Quartz, Calcite	District Owens		Principal Product Silver, Lead	
Type of Operation: Underground	County Mohave	State Ar.	Type of Deposit Vein	
Ownership or Controlling Interest: Consult current tax assessment records				
Access: From Brown's Crossing proceed north on Alamo Road for 17 miles, turn left on unimproved road for 4 miles. Mine is shown (unnamed) on topographic quadrangle.				
Structural Control or Geological Association: "Veins cut a complex of quartz-mica schist and pink pegmatite dikes." ²				
Age of Mineralization:				
Production History	Geochemical Analyses			
Patented claim Book #103 MS #2534	<u>Ore Reserves</u> ¹			
	Block #1	12.0 oz/ton silver)	100,000 tons	
		2.0% lead)		
	Block #2	3.1 oz/ton silver)	100,000 tons	
	7.15% lead)			
Block #4	17 oz/ton silver)	5,000 tons		
	1.89% lead)			
References				
1) CETA map file, Rack #19, Assay and underground map, ore reserve map				
2) ABM (1969) Bull. 180, p. 251-269.				

Name of Mine or Prospect: McCracken Mine	Township 13N	Range 15W	Section 25 a
Principal Minerals: Galena, Pyrite, Silver, Gold	1:250,000 Quad Needles	7.5' - 1 Castaner	
Associated Minerals: Calcite, Siderite, Barite, Quartz	District Owens	Principal Lead, Sil	
Type of Operation: Underground: Shaft, Adits, Drifts	County Mohave	State Ar.	Type of Deposit Vein
Ownership or Controlling Interest: Magnum Consolidated Mining Co. (No Date) ³			
Access: South on Alamo Road from Yucca, AZ. Consult local quadrangle map for access.			
Structural Control or Geological Association: "Silver, pyrite and galena with minor gold in a gangue of calcite, siderite, quartz, and barite which cement fragments of schist and quartz in fissure veins. Veins cut a complex of quartz-mica schist and pink pegmatite dikes. The veins strike north-south and dip about 65° east and range from 6 to 20 feet in width." ¹			
Age of Mineralization:			
Production History		Geochemical Analyses	
Discovered 1874 ¹ Operated principally 1931-1957 Zinc produced 250 tons Lead produced 5000 tons Silver produced greater than 1 million troy oz. "over 9000 feet of underground workings" ⁴		Sample Assay ³ 1969 3% lead 8 oz/ton silver Underground assay data ⁵ 28 samples averaged 19.06 oz/ton silver 6.89 oz/ton gold (Senator Tunnel)	
References			
1) AMB (1969) Bull. 180, p. 114-117, p. 251-269. 2) Elevatorski (1979) p. 40. 3) ADMR file, Phoenix, Ar. 4) Mallach (1977) p. 57. 5) CETA map file Rack #19, assay, underground and claim maps.			



McCracken
T13N R15W Sec 25 NE

Castaneda Hills 15

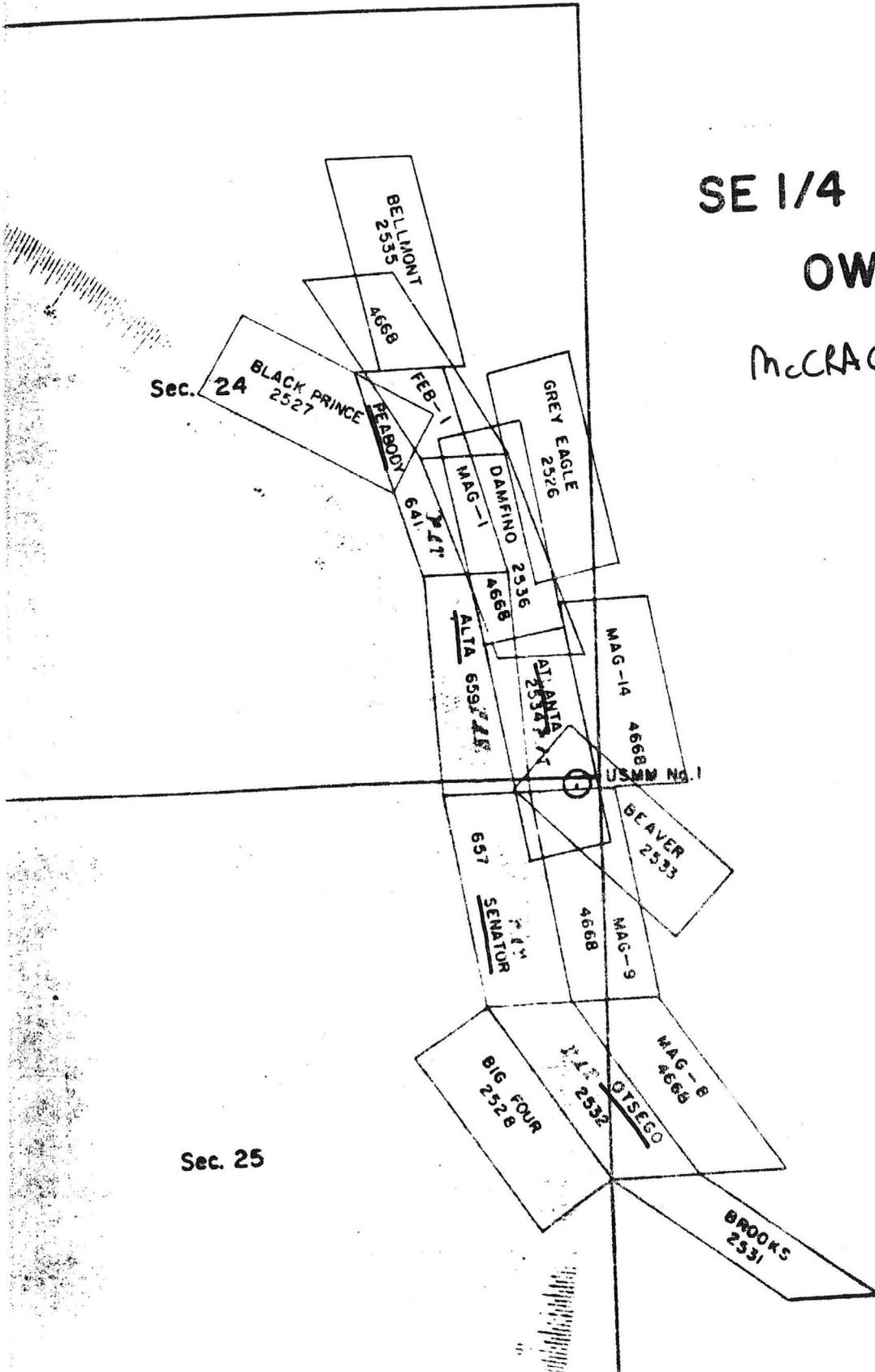
SIGNAL 1 MI
3817
3816
3815
3814
3813
3812
3811
3810
3809
3808
3806
3805
3804
3803
T 12 N
20'
T 11 N
3801
1/8 MI

(ARTILLERY PEAK)
3252 1

404

SE 1/4 T. 13 N., R. 15 W.
OWENS DIST.

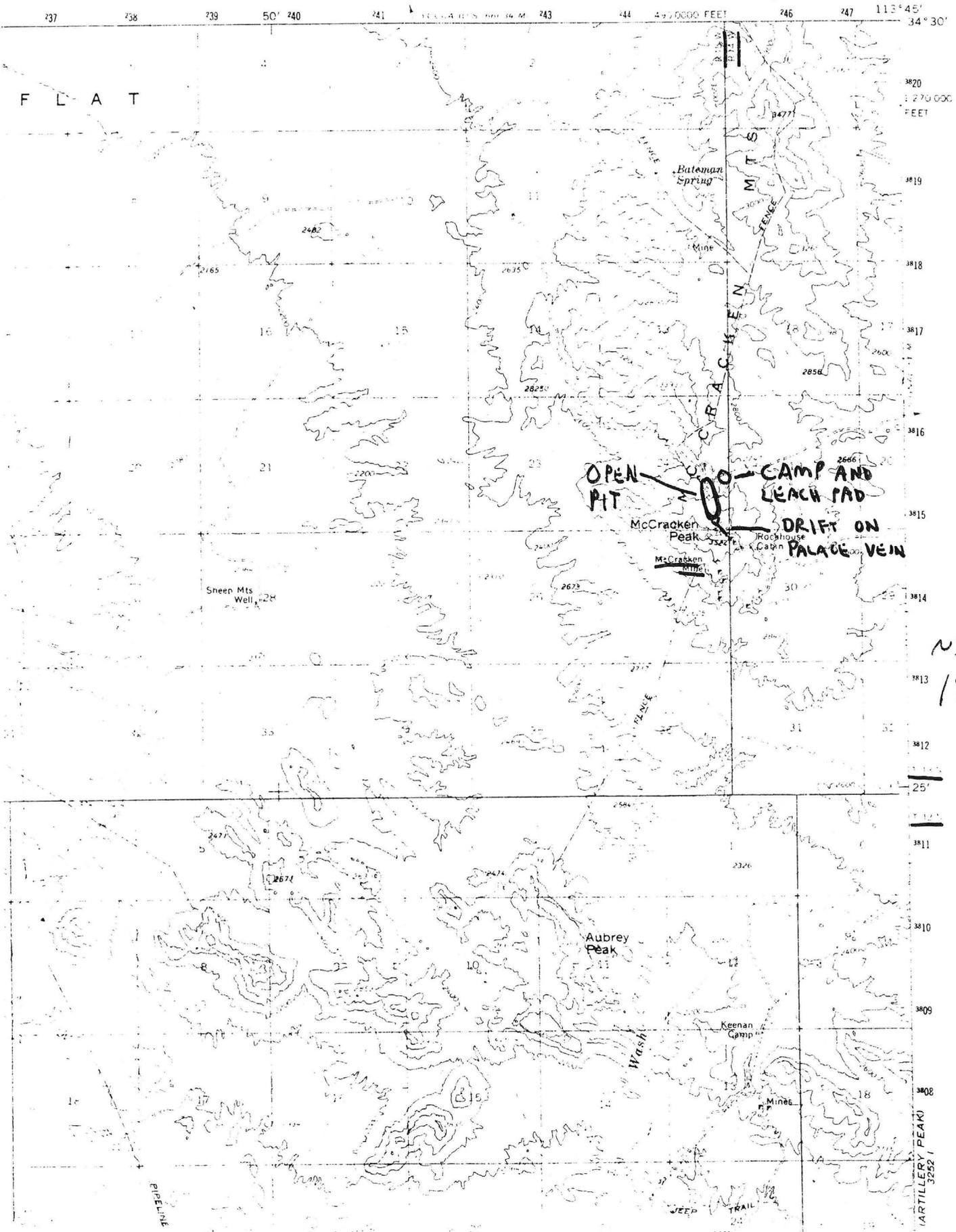
McCRACKEN MINE



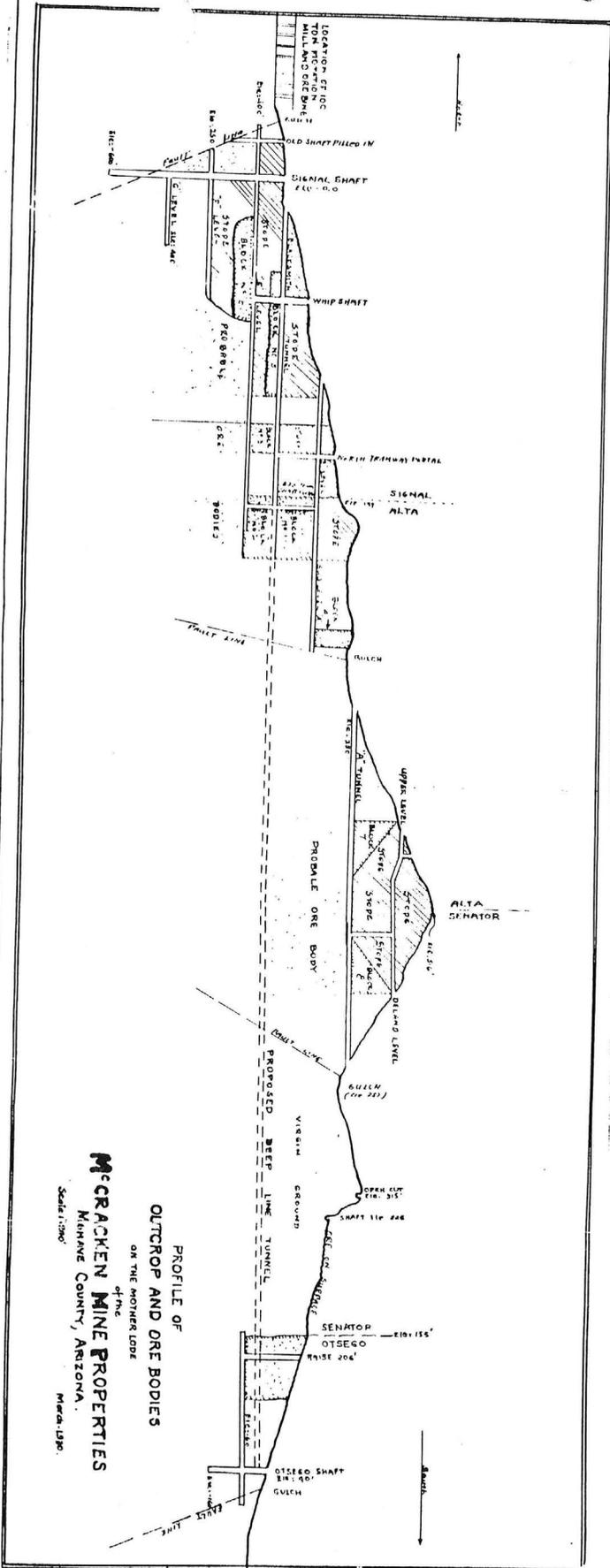
CASTANEDA HILLS QUADRANGLE

ARIZONA

15 MINUTE SERIES (TOPOGRAPHIC)



NSM
1984



PROFILE OF
 OUTCROP AND ORE BODIES
 OF THE
MCCRACKEN MINE PROPERTIES
 ON THE MOTHER LOBE
 MOHAVE COUNTY, ARIZONA.
 SCALE 1:2000
 MARCH 1930.

T13N

14

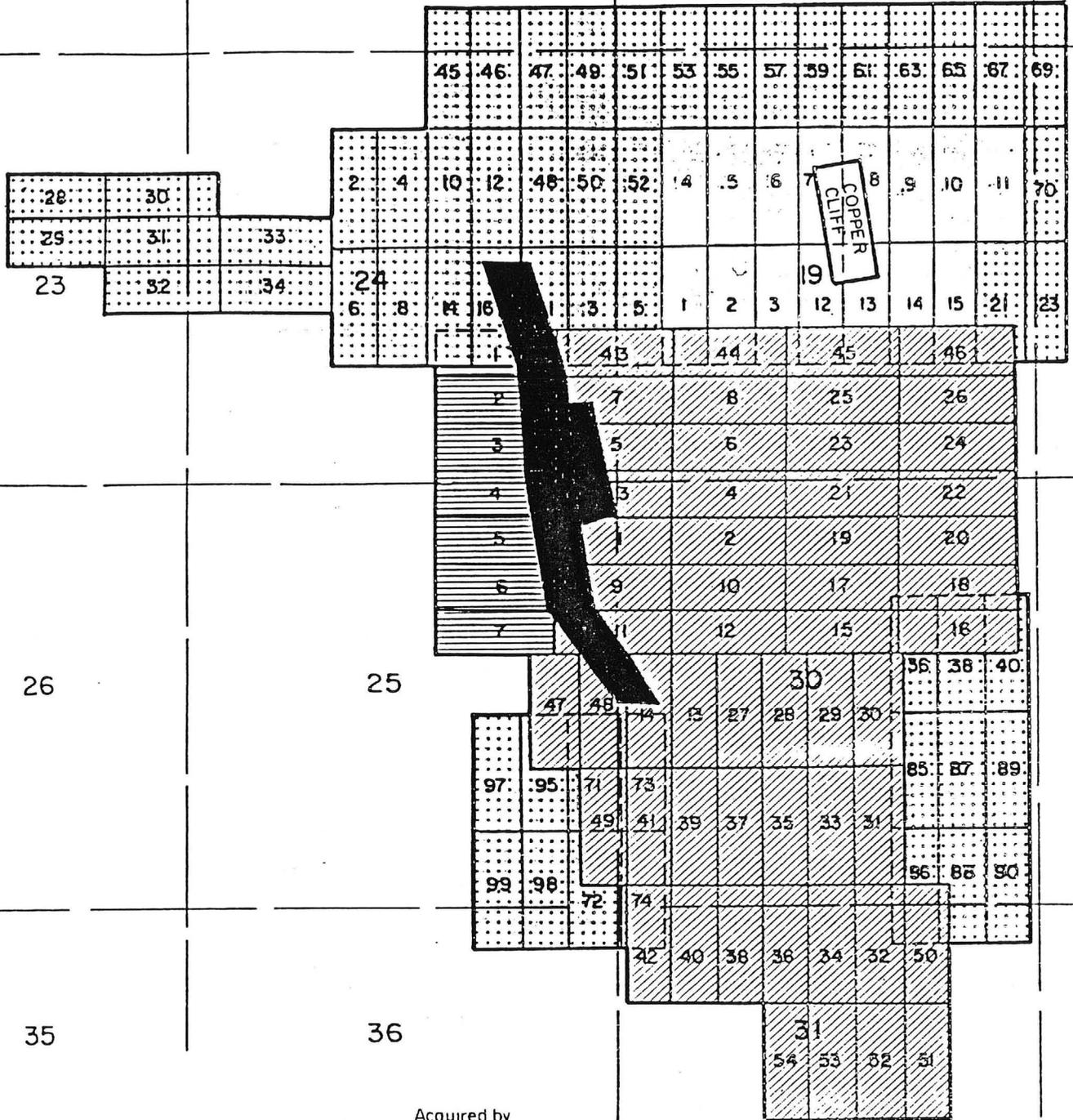
13

R 15 W

R 14 W

18

17



Claim Groups

Nº. of Claims

Acquired by Agreement Dated



MCCRACKEN SILVER PATENTED CLAIMS (Teck Resources (U.S.) 1983, Inc.).

5

Oct. 28/83



RITA GROUP

7

Oct. 17/83



MCCRACKEN GROUP

53

Oct. 17/83



AFTERTHOUGHT GROUP

54

Nov. 4/84



ENCIE GROUP

15

Feb. /85
(By staking)

CORVAL DEVELOPMENT INC.

MCCRACKEN MINE PROJECT

CLAIM MAP

MOJAVE COUNTY, ARIZONA

D. TAYLOR, P. ENG.

MARCH 1985

0 1/2 1 MILE

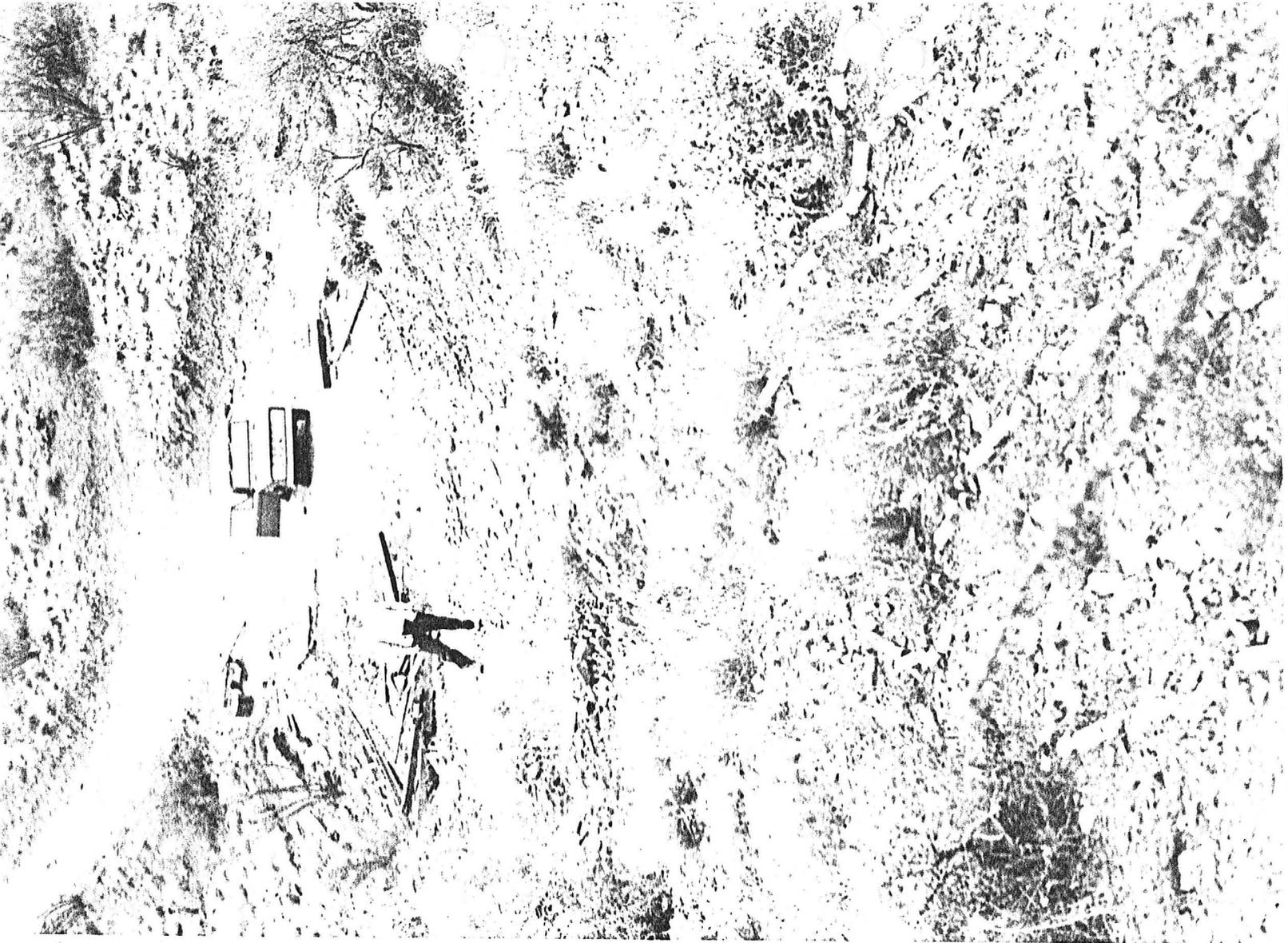


A-120-2
A-120-3
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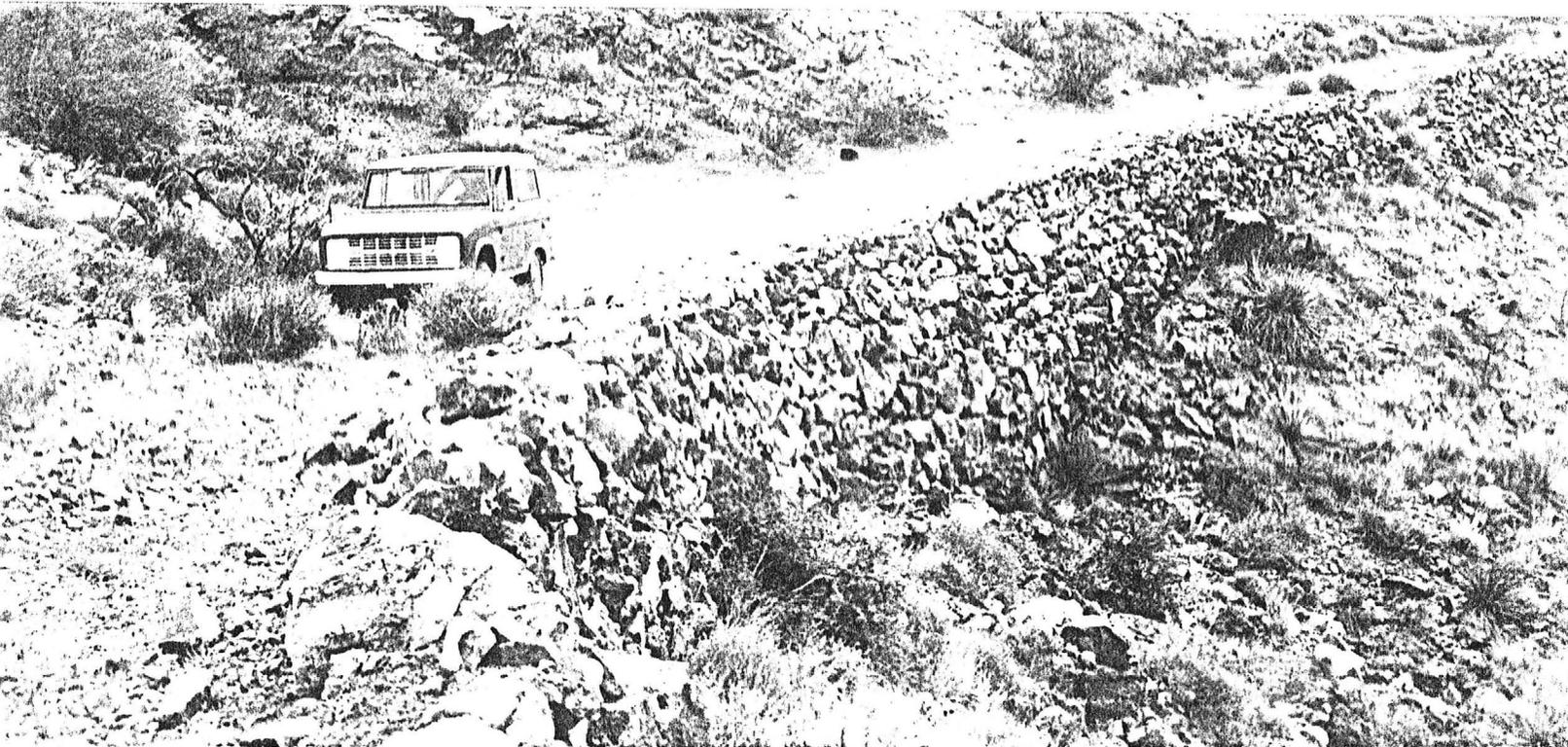
1965
1965



←
World MNC Co 15
Mohave MIM Co 16
CONGRESS 60
DRIVE SLOW AND DIE OF THIRST.



A-120-6

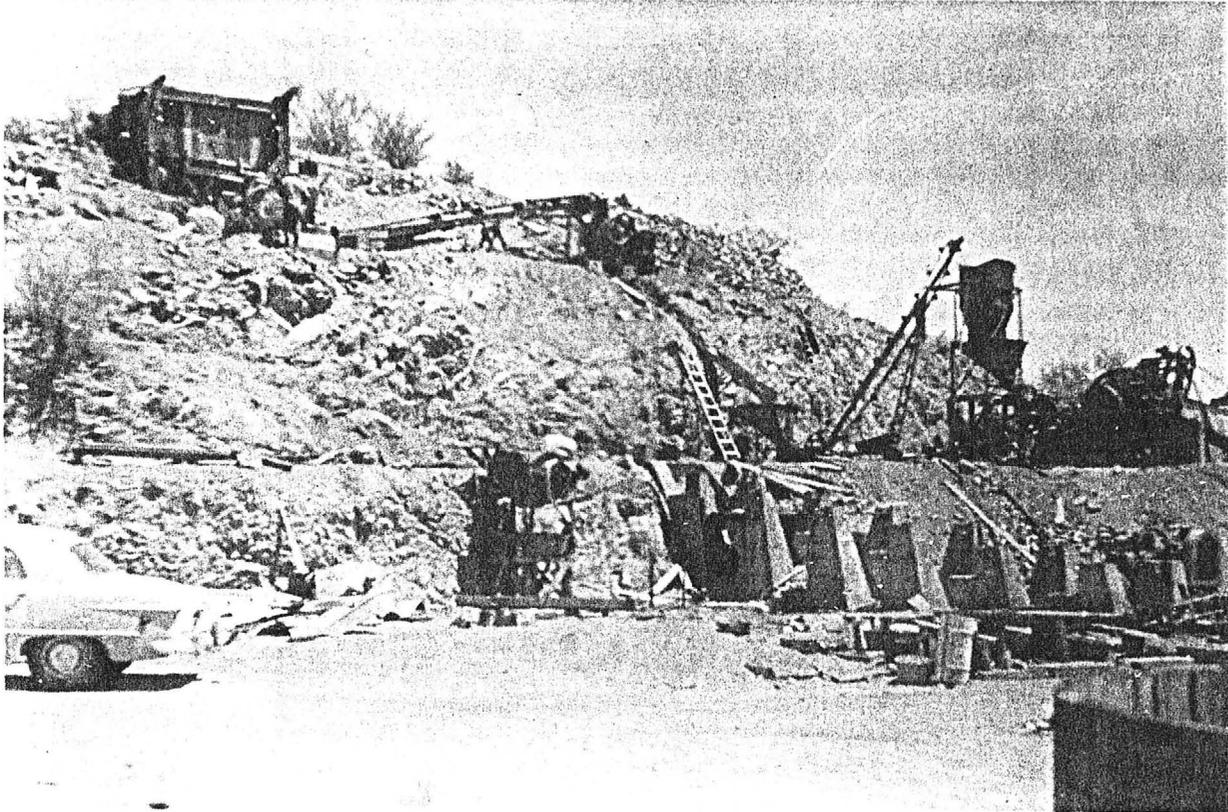


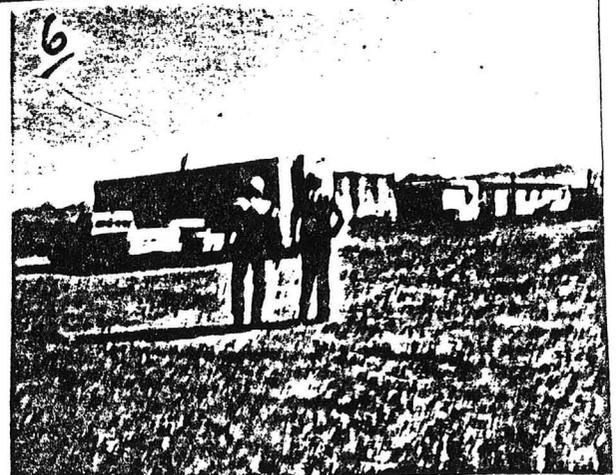
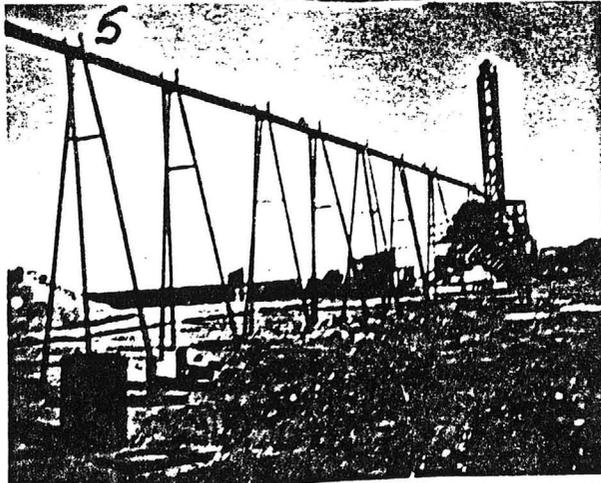
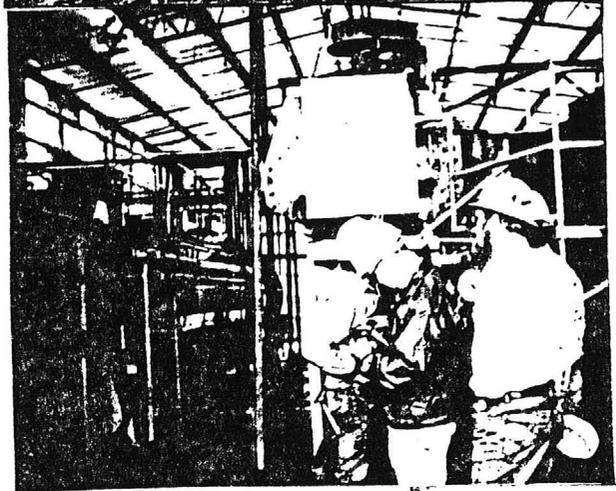
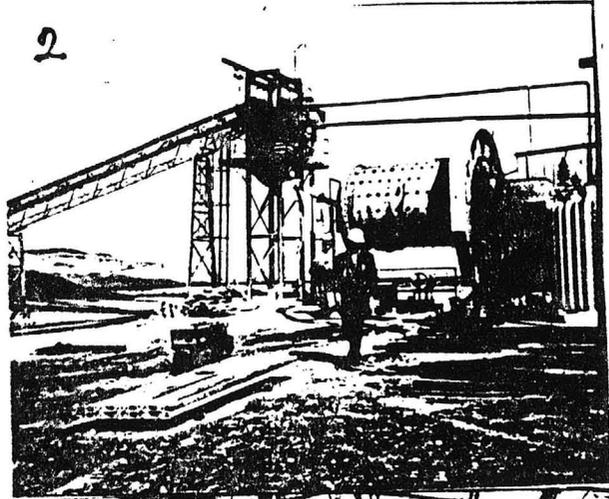
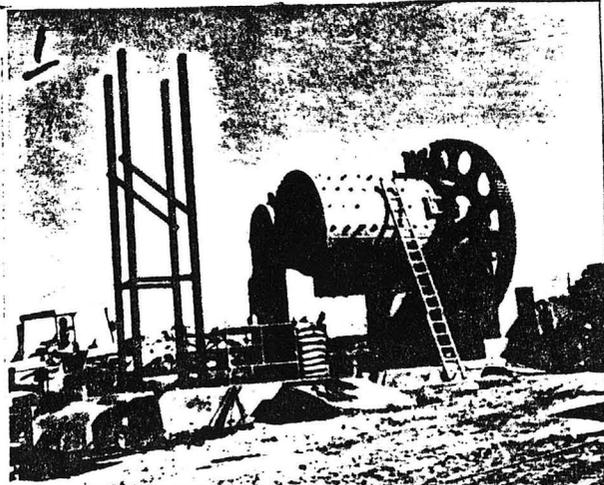
A-120-5

1965

A-120-1 6-1953

MECKLACIEN MINE





From Roman Malach Photograph Collection: (1) McCracken ball mill under construction, (2) Mill already in operation, (3) Ore feeding line to the mill, (4) Inside of the mill where concentrates are made, (5) Waste line to dump ponds, and (6) Offices and mill shops of the McCracken Mill.

McCracken

Will say that generally a district is very much better off not to have any normal boom. A decent interest or a widespread interest can be shown in a town, together with the investment of money, without a boom and its evil effects.

Mr. HAMILTON. Are there any other points that you want to bring out, Mr. Billings?

Mr. BILLINGS. No, sir; except that there are quite a few here who perhaps can give you some points I have overlooked, even if you don't happen to notice them.

Mr. HAMILTON. I have no doubt but that all the gentlemen here have some experiences in the past they would like to relate to us.

Mr. BILLINGS. I would suggest first, as a representative of the lead and silver interests here, that you call upon Mr. Maxcy, and of the gold interest Messrs. Moore, Phelps, and Dimmick, and of the composite ores—base ores—Mr. Wishon and Mr. Gibson.

Mr. HAMILTON. All right. Thank you very much, Mr. Billings.

I want everyone to realize that these hearings are being held for the benefit of the mining men, to give them an opportunity to recite the facts and conditions under which they have operated; and everyone at the hearings is perfectly welcome to record anything that he desires to place in the record. The scope of the hearing is large and broad, and the aim of the commission is to find out, if possible, any angles touching upon the mining industry which it can aid either by active legislation or direct legislation or by moral suasion in benefiting the industry in any way. So I feel it is an opportunity for the mining men to give their assistance in presenting whatever difficulties they may have had or may be having at the present time, no matter whether it is operation, whether it is in the acquirement of lands or whether it is in land conflicts or whether it is because of the interference of any other Government agency, or whatever the cause may be. And I believe that instead of keeping some of our grievances to ourselves, as a miner is prone to do, if we did recite and bring out into the open what experience we have had in the past, by throwing the light of day upon those experiences, something might be accomplished. The miner, as a rule, is an individualist, and he is willing to take his chances. If he loses, he is a good loser; if he wins, he is a good winner. But I believe there is much that can be done by cooperative effort on the part of the industry, and it is necessary for the individual to partake of cooperative methods in order to combat the other interests which are working along those lines. One of the reasons the mining industry has not held its own with other industries is because of the fact no publicity is given to their operations; no active, cooperative, and joint effort is made to accomplish anything for the industry, or to combat the encroachment of other industries upon the field of mining. It has all been individual effort, to a large extent. So, if we can, through these hearings, build up a feeling of the individual having an interest in everything that goes on in the industry, I believe that a good deal will be accomplished.

I did not intend to start out to lecture you as to what the mining industry should be, but when we get together informally this way an exchange of ideas sort of comes is a good thing.

Mr. Maxcy, will you take the chair and give, for the benefit of the record, your name and your connections?

STATEMENT OF MR. CHARLES H. MAXCY, TREASURER SIGNAL MINES CO., KINGMAN, ARIZ.

Mr. MAXCY. Charles H. Maxcy, treasurer of the Signal Mines Co., Kingman, Ariz. I don't know just what I can say. Our troubles are high cost of production, and that is labor, supplies, and freight.

Mr. HAMILTON. How long have you been operating, Mr. Maxcy?

Mr. MAXCY. About two years here.

Mr. HAMILTON. And previous to that time, Mr. Maxcy, how long had the mine that you reopened been closed down?

Mr. MAXCY. Well, the mine was worked years ago, the old McCracken mine.

Mr. HAMILTON. It had not been worked for many years until you reopened it?

Mr. MAXCY. I guess 30 years; I don't know just how long.

Mr. HAMILTON. What is the nature of the ores that you are treating at your place?

Mr. MAXCY. It is silver-lead.

Mr. HAMILTON. And you are recovering the silver-lead values by flotation?

Mr. MAXCY. Yes, sir.

Mr. HAMILTON. To what points do you ship your concentrates?

Mr. MAXCY. To Midvale.

Mr. HAMILTON. Could you give a brief outline of the methods of mining and the treatment of your ores, and the marketing of them, Mr. Maxcy? In other words, just go roughly through the flow sheet of your operations?

Mr. MAXCY. We bring the ore into the mill, and it is crushed and then put through a rod mill and then through the flotation plant.

Mr. HAMILTON. Is the mine opened through a tunnel or a shaft?

Mr. MAXCY. Both a tunnel and a shaft, but principally by a tunnel.

Mr. HAMILTON. How many men are employed in the operations?

Mr. MAXCY. Oh, about 40, when we are running.

Mr. HAMILTON. Do you have any difficulty in getting a labor supply?

Mr. MAXCY. Yes; we have had more or less trouble.

Mr. HAMILTON. How far are you from the railroad?

Mr. MAXCY. Forty miles.

Mr. HAMILTON. What, in general, are your costs of operation at the present time?

Mr. MAXCY. Our mining and milling costs have been in the neighborhood of \$5 a ton.

Mr. HAMILTON. That is your mining and milling, or just the mining costs?

Mr. MAXCY. Mining and milling.

Mr. HAMILTON. What hauling rates do you have to pay?

Mr. MAXCY. The cost of hauling from the mine to the railroad is \$8 a ton—that is, concentrates.

Mr. HAMILTON. Is that contracted or do you do your own hauling, Mr. Maxcy?

Mr. MAXCY. We contract it.

Mr. HAMILTON. Is there any other market for your concentrates other than the Midvale plant?

Mr. MAXCY. Yes; El Paso and Selby either take them.

Mr. HAMILTON. How do the smelter rates compare as between those different plants?

Mr. MAXCY. They are about the same. They are different propositions. We have made a contract with the United States Smelting Co. at Midvale. We got a little better contract from them than we were offered by the others.

Mr. HAMILTON. How do the distances between the smelters compare—that is, between the property and the different smelters you deal with?

Mr. MAXCY. You mean the hauling figures?

Mr. HAMILTON. The freight rate.

Mr. MAXCY. I think the freight rates to Midvale and to El Paso are the same.

Mr. HAMILTON. And how does the distance compare?

Mr. MAXCY. I think it is practically the same.

Mr. HAMILTON. Do you recall the rate per ton?

Mr. MAXCY. A new rate went into effect last month, of \$13.30, and I think that rate was met by the roads going into El Paso.

Mr. HAMILTON. Have you ever estimated or figured the percentage of the value that was paid to you by the smelter?—in other words, the percentage of return of the assay value of the ore?

Mr. MAXCY. The lead is usually paying about 10 per cent.

Mr. HAMILTON. What I mean by my question is: If you have an ore that would return \$75 or \$100 as a concentrate, what percentage of that \$100, say, the value of your concentrates, would you receive from the smelter?

Mr. MAXCY. I understand if our ore was \$75 ore, we would have to deduct our freights from that.

Mr. HAMILTON. Yes.

Mr. MAXCY. But we labor under a little disadvantage in shipping concentrates. We have to mine from 15 to 30 tons of ore to produce 1 ton of concentrates, and the railroads make no difference between shipping green ore or concentrates.

Mr. HAMILTON. Has that point ever been taken up with the railroads, Mr. Maxcy?

Mr. MAXCY. We have tried to take it up with them. We got a concession in shipping to Canada, eastern coast. We could ship from Canada into New York. They gave us a rate there on concentrates; gave us a less rate than they would charge on the green ore of the same value.

Mr. HAMILTON. I understand you have a railroad commission or public service commission in Arizona?

Mr. MAXCY. Yes; I suppose they have. We have never struck them yet.

Mr. HAMILTON. I understand they are in every way endeavoring to assist in the lowering of freight rates.

Mr. MAXCY. Yes. We have been taking that up with the Santa Fe the last few weeks, but I don't know how far we will get with it.

Mr. HAMILTON. What wages are paid at the mine, Mr. Maxcy?

Mr. MAXCY. We are paying about \$5.50 for miners—\$5.50 to \$6; \$4.50 to \$5 for common labor.

Mr. HAMILTON. Is there any shortage of trained or experienced miners at this time?

Mr. MAXCY. Miners have been rather scarce with us lately.

Mr. HAMILTON. What, as a rule, is the nationality of the miners?

Mr. MAXCY. We have a few Mexicans, but mostly Americans.

Mr. HAMILTON. Does the area in which you are operating give promise of a large development of ore reserves?

Mr. MAXCY. We have a pretty good sized body of ore developed, and some of our neighbors want to bring ore to us to be treated, and we have told them we could if we could agree on the right basis.

Mr. HAMILTON. How many other properties are being developed in your section?

Mr. MAXCY. Offhand, I would say five or six, but there may be more.

Mr. HAMILTON. Are they all lead-silver properties?

Mr. MAXCY. Most of them are lead-silver properties; maybe one of two copper properties are being developed there also.

Mr. HAMILTON. What, in general, is the size of those operations?

Mr. MAXCY. They are pretty small, I take it, at the present. I am not very familiar with it. There are quite a number of prospects between us and the Bill Williams River.

Mr. HAMILTON. Has the opening up of your property in the last year or two increased the amount of prospecting and development in that area?

Mr. MAXCY. I think it has, but I don't know whether they would have developed if we had not opened up.

Mr. HAMILTON. What percentage of the value of your ore consists of silver—in other words—

Mr. MAXCY (interposing.) Why, I should say about 2 to 3.

Mr. HAMILTON. Were you operating at any time during the—or milling during the operation of the Pittman Act?

Mr. MAXCY. Yes; for a short time.

Mr. HAMILTON. Did you have any difficulties in adjustments at the time the Pittman Act was closed?

Mr. MAXCY. No; they just stopped paying us the amounts; that is the only difficulty.

Mr. HAMILTON. Was any of your silver ore tendered to the smelters that was not received?

Mr. MAXCY. No; we had in the affidavits of all of our cars. Several moved after the Pittman Act stopped. I don't know whether it will amount to anything or not.

Mr. HAMILTON. What is the capacity of your plant, Mr. Maxcy?

Mr. MAXCY. About 150 tons a day—that is, flotation.

Mr. HAMILTON. One hundred and fifty tons of crude ore you mine?

Mr. MAXCY. Yes.

Mr. HAMILTON. What power is used?

Mr. MAXCY. We use the "Y" Fairbanks Morse hot head type of engine.

Mr. HAMILTON. Has there been any reduction of freight rates?

Mr. MAXCY. Yes; \$1.20.

Mr. HAMILTON. And when was that in effect?

Mr. MAXCY. It became effective either the latter part of February or the 1st of March.

Mr. HAMILTON. That is upon your concentrates shipped to Midvale?

Mr. MAXCY. Yucca to Midvale; yes, sir.

Mr. HAMILTON. What do you pay for lumber or mine timber?

Mr. MAXCY. Pretty nearly \$75 a thousand by the time it reaches us.

Mr. HAMILTON. At the mine?

Mr. MAXCY. Yes. Right in that neighborhood.

Mr. HAMILTON. Is that timber purchased in the Los Angeles district. Mr. Maxcy?

Mr. MAXCY. We generally get it here in Kingman. It comes from Los Angeles.

Mr. HAMILTON. You buy your lumber locally?

Mr. MAXCY. Yes; we buy it in small lots.

Mr. HAMILTON. Have you any other difficulties of any kind, any other obstacles to contend with other than the high cost of materials and labor?

Mr. MAXCY. The high cost of materials, labor, and freight is the principal thing with us. Of course, we have a long truck haul.

Mr. HAMILTON. Is there any opportunity for the development of methods whereby you could improve the extraction of values from the ores? I mean something that would be—

Mr. MAXCY (interposing). Of course, they are working at that all of the time. I don't know just—

Mr. HAMILTON. But nothing that would make a radical change in your operations?

Mr. MAXCY. I don't think so; I don't know of anything just now. We are putting in a chlorination plant to treat some of our ores—a certain class of them. We haven't run on them; we have only the tests that have been made elsewhere.

Mr. HAMILTON. You feel that under the present conditions you can operate at a profit?

Mr. MAXCY. Yes; upon certain grades of ore.

Mr. HAMILTON. Are there any considerable tonnages of ore that you have developed that are not—that it is not possible to treat at a profit to-day?

Mr. MAXCY. Yes; we have quite a body of ore; that is what we are putting in the chlorination process for, to treat that particular ore.

Mr. HAMILTON. Have you any figures to show whether the tendency of you costs is down or up?

Mr. MAXCY. No; I have not those figures with me. They are running pretty even; they have in the last few months that we have run.

Mr. HAMILTON. That is, you have not noted any material changes in the costs of any of the commodities that you use?

Mr. MAXCY. Most of our commodities are pretty nearly just about the same.

Mr. HAMILTON. Have you any other points that you want to bring out, Mr. Maxcy?

Mr. MAXCY. No, sir; not that I know of.

Mr. HAMILTON. All right. I thank you very much.

Mr. HAMILTON. Mr. Phelps will you come forward, please? Will you give your name and connection for the record?

STATEMENT OF MR. W. B. PHELPS, SUPERINTENDENT TOM REED GOLD MINES CO., OATMAN, ARIZ.

Mr. PHELPS. W. B. Phelps, superintendent of the Tom Reed Gold Mines Co., Oatman, Ariz.

Mr. HAMILTON. Could you give us, Mr. Phelps, a brief outline or history of the operations of the Tom Reed; when they started and—

Mr. MAXCY (interposing). The operations started in rather a small way. It was one of those mines that was built up, and we have produced approximately between twelve and thirteen millions of dollars. I think about one-third to one-fourth would represent profit paid in dividends to the stockholders. We have had a number of mills. The mills were changed, due to improvements mainly. We now have a 300-ton cyanide plant which we are not operating to full capacity. We are treating approximately 150 tons of ore at the present time and we are making a profit.

Mr. HAMILTON. Is the curtailment of your tonnage due to the necessity of treating a higher grade ore than in the past, or is it due to ore reserves?

Mr. PHELPS. No; it is due to a depletion of our ore reserves. I was just talking that over with Mr. Moore before you called me. Our ore either runs good or it is a way below grade, with the exception of a small tonnage. We are approximately at the end of our ore reserves, and we figure we will discontinue our operations about the 1st of June. What we are mining now is the remains of ore bodies—pillars. We are practically just robbing the mine of the pillars at the present time.

I asked Mr. Moore if he could extend the life of his mine to any appreciable extent if we should receive an increase in the price of gold. He will tell you

✓
McCRACKEN

MOHAVE COUNTY
OWENS DIST.

Eleven men, working two shifts, are employed at the McCRACKEN mine and mill in the Signal area of Mohave County, Arizona. Recently the principal work has been running test batches from the mine and dumps in the company's 30-ton mill. This plant consists of two jaw crushers, and a six-inch conical ball mill, rake classifier, six flotation cells, and four tables. Mill heads are said to have run from 6 to 16 percent lead and 4 to 25 ounces silver. Robert L. Hockett, Signal, is mill foreman.

Taken from MINING WORLD, August, 1958, p 65

MINING WORLD - 9 58

Mining World 6/1959

McCRACKEN

MOHAVE COUNTY

KAP WR 5/31/85: Received a call from a New York metals trading firm regarding Arizona Silver Corporation. They (the metals trading firm) has been approached by Arizona Silver to purchase silver concentrates from their McCracken Mine (f) and they wanted our comments regarding Arizona Silver's operations.

CJH WR 9/20/85: Phone call: Conrad W. Pilz, formerly Staff Metallurgist, Cyprus Metallurgical Processing Corp., reported that Corval Development has shut down all operations.

NJN WR 9/27/85: Ed Huskinson (c) reported Arizona Silver (c) recovered \$1.5 million in silver during the 6 months they were in production at the McCracken Mine (f).

KAP WR 9/27/85: Frank Russell, San Diego, explained that he has learned that Arizona Silver plans a cyanide circuit at their Yucca Mill (known as the Mindy Mill in our McCracken Mine (file)).

NJN WR 9/6/85: Perry Fletcher and Bill Smith visited and reported that they had recently been laid off from the McCracken Mine (f) Mohave County. The mine was closed August 16 by Arizona Silver after pulling all of the developed underground ore. The mill at Yucca will run till the first of September.

NJN WR 5/2/87: Frank Russell (c) reports that Corvel Development (Arizons Silver systems - card) has reconsidered their decision to sell the Yucca Flotation Mill-site (file) Mohave County in light of the current silver prices (approximately \$10). They hope to forward-sell silver and thus be able to put the McCracken (file) and Flag (file) Mohave County into production.

McCracken

MOHAVE COUNTY

MON WR 11/25/83 It was reported that Corval Development (Arizona Silver Corp., Inc.) has leased the McCracken Mine from Teck Corp. of Canada. They have also acquired the unpatented claims surrounding the patented property from Stevens Enterprises. American Mine Services still retains the ownership of the Mindy Mill near Yucca. The Mill's asking price is reportedly \$1 million.

MG WR 12/9/83: Learned that Fischer-Watt Mining Co. has returned the Gunslinger (McCracken) property of Mohave Co. to the Tech Corporation, a Canadian firm. Tech has reportedly leased it to Corval Development Inc. (Arizona Silver Corp.)

NJN WR 7/13/84: Ed Huskinson (c) reported that Corval Development Inc. (c) (Arizona Silver) has purchased the Mindy Mill near Yucca Mohave Co. from American Mine Services in June for approximately \$500,000. Floyd Brown is staying at the mill site as watchman. Restoration of the mill is in progress. They are currently looking for a flotation mill operator. Their plans are to supply the mill with ore from their underground operation at the McCracken Mine, Mohave Co. A contract trucker would be used to transport the ore.

NJN WR 9/14/84: Ed Huskinson (c) reported that Arizona Silver should have the Mindy Mill Mohave County (McCracken (f) ready to operate during October. They have hired Wally Johnson to be the metallurgist in charge of the mill.

NJN WR 11/23/84: Stan Keith reported the McCracken (f) Ramsey (f) and White Hills (f) Mines, all silver properties, mineralization is coeval and have the same magma chemistry.

NJN WR 3/15/85: Ed Huskinson (c) reports that Arizona Silver has nearly all of their underground ore at the McCracken Mine (f) Mohave County broken so they will just have to pull it and ship it to their mill at Yucca.

KAP WR 10/23/81: A visit was made to the Mindy Mill at Yucca in Mohave County. Robert Allgood reported the 500 tpd floatation mill is on standby awaiting either a rise in the silver price or the availability of custom ore. A stockpile of 10,000* of crushed Gunslinger Mine ore (McCracken Mine) on the mill property. It is currently uneconomic to mill. They would operate the mill on a custom basis if an assured supply were available. A potential shipper should be able to prove the availability of a minimum 150,000 tons of economic ore.

MG WR 12/24/82: Mr. Pete Drobeck of the Fischer-Watt Mining Co. reports that one underground reserve figure at the McCracken Mine, Mohave County is 55,000 tons in the Stonehouse vein, assaying 10.9 oz Ag/ton over a 5.8 ft. sample width. There are other open-pit reserves of larger tonnages and lower average grades. Fischer-Watt would be interested in any serious offer to mine the reserves on a contract basis or to buy the property.

NJN WR 2/26/83: Fischer Watt is looking for a partner for their Oatman Exploration Project and for a partner at the McCracken or Gunslinger Mine. At the McCracken underground, reserves are 49,000 tons grading 12.3oz/ton silver and 1.5% lead.

NJN WR 7/22/83: Perry Durning reported that Fischer Watt no longer has any association with the McCracken Mine, Mohave County.

NJN WR 9/2/83: Bob Back reported that Magnum Mining of Vancouver, B. C. has been paying taxes of the patented claims which are part of the McCracken Mine, Mohave County. His employer has acquired the mineral rights to BLM land around the mine.

NJN WR 9/9/83: Bob Back and Knute Stevenson working for Stevens Enterprises, Texas visited. They reported they have staked unpatented claims (not on BLM microfiche yet) around the McCracken Mine, Mohave County. They are trying to pick up the patented part of the mine held by the Teck Corporation of Canada. They believe the underground "reserves" can be economically mined. They also reported that Stevens Enterprises has acquired the Silverado Mine, Mohave County.

CJH WR 5/14/80: The Boriana Mill is starting up and Fischer-Watt Mining Co. (?) has advertised for a mill man (flotation) and an assayer. They will run the McCracken Mine dumps.

CJH WR 7/29/80: Field visit to McCracken Project, Yucca Mill, Mindy Inc. (see CJH Field Engineer's report, Gunslinger Mine 6-3-80) and a field interview with Mr. Robert Green, Project Engineer. Mindy Inc. is the new name for the joint venture of Canadian Natural Resources Ltd. and Fischer-Watt. Perry Durning of Fischer-Watt will initially be doing the Gunslinger Mine geology plus exploration geology all the way south to the Bill Williams River. They hope to eventually hire a mine geologist. The Gunslinger property was grid drilled and cuttings sampled. The mill at Yucca will grind to 30% minus 325 mesh and be on stream by 15 September. The Mindy address is: P.O. Box 4149, Kingman, Arizona 86401.

CJH WR 9/18/80: The Gunslinger (McCracken) Mine is being open-pitted. A large tailings pond at the mill has been constructed. They will eventually employ a total of 45 people at the mine and mill.

RRB WR 12/19/80: Dan Howard is Mine Superintendent, Gunslinger Property.

CJH WR 12/19/80: Stopped at the Mindy, Inc. mill at Yucca and obtained permission to visit the Gunslinger open pit mine which is at the site of the pre-existing underground McCracken Mine. Interviewed Dan Howard, Mine Supt. at the Gunslinger property. Mr. Beard will write a field engineer's report.

MG WR 3/20/81: Perry Durning informed me that the Gunslinger Mine (McCracken) in Mohave County, is scheduled to go on standby today; with silver prices falling the operators have tended to "gut" the mine just to break even. Current plans are to develop additional reserves at the mine and wait for market improvements.

RRB WR 3/27/81: Bill Clubb reported that the Gunslinger had been shut down pending an increase in silver prices.

RRB WR 10/23/81: Bill Vanderwall also reported that the Yucca Mill will start operation if anyone can furnish 60,000 tons of suitable ore on site. Bob Algood metallurgist and the assayer are the only two left at the mill.

DO NOT REPRODUCE

* Mr. Marvin Crow phoned about Magnum Consolidated Mining Co. and the installation of the "Continental" mill at the McCracken. He has the job as assistant project manager.
JHS WR 6-20-69

Interview with Steve Radvak, Mgr. They were beginning strip operations preparing for mining. He said they will start mill construction soon. FTJ WR 7-11-69

Stripping of the McCracken orebody began at the close of the quarter and mill construction expected to begin in the 1st quarter of 1969-70. FTJ QR 7-15-69

Visited McCracken mine. No activity at present time. Mr. Skeen, watchman, said managerial shakeup seemed to be in the offing. Heavy equipment remained on the property and some of the CWT mill had been taken to the mill site. Work supposed to begin in about 2 months. FTJ WR 9-5-69

Visited the McCracken Mine - idle. Watchman did not know what Magnum plans to do or when. FTJ WR 11-7-69

Gerry Weathers said milling equipment is being moved on to the McCracken mine. FTJ WR 1-16-70

March 2 Gerry Weathers said drilling at the McCracken mine completed and future plans unknown. March 3 Sheldon Heath who works for Magnum said McCracken activities have ceased. FTJ WR 3-6-70

The McCracken mine remained idle as the company evaluated their findings. FTJ QR 4-3-70

A watchman is being installed at the McCracken mine because of thieves. GW WR 1/3/73

CJH WR 4/3/80: Phone call from Jim Germundson, American Mine Services, 6245 Clermont St, Commerce City, Colorado 80022. Was informed that his company will be reopening the McCracken Mine, Owens Mining District, west of Signal, southern Mohave County and the Boriana Mill at Yucca.

MG WR 4/2/80: In conversation, learned that Perry Durning's group is attempting to purchase mill equipment (from the old Boriana mine ?) and to reopen the McCracken lead-silver mine in Mohave County.

KAP WR 2/26/80: Canadian Mines is planning on starting up silver production from the McCracken Mine, Mohave County. They hope to acquire the Boriano Mill. Ore is to be hauled 45 miles from the mine to the mill. The mill will use selective flotation; recovery will be 90 percent. The metallurgical testing and flow sheet design have been done by Mountain States Engineers.

DO NOT REPRODUCE

Interviewed Fred Avery in Wikieup. Learned Boyles Bros. were drilling at the McCracken mine, but did not know for what company. On returning to Phoenix called Boyles Bros. and found out they were drilling for an Idaho Co. (Bunker Hill?) R. H. W. Chadwick is in charge. EGW WR 1-8-65

The old McCracken Mine in Mohave County north of the Mineral Hill operation is being re-opened by a Canadian company - Magnum Consolidated Mining Co.
RFP 10-5-67

Learned that Magnum Consolidated have done some preliminary work on the McCracken and expect to be back on the property in January 1968. FTJ WR 11-10-67

Reported drilling is being done on the McCracken property. This is in Mohave County but is reached by road from Wenden. CLH Conf. Salome 2-13-68

Dan Davis reported that Jaquays was going to core drill on some part of the McCracken mine property unknown to him. Jerry Haynes is the ramrod for Magnum Consolidated. FTJ WR 3-8-68

Magnum Mining Co. is doing exploratory drilling in the old McCracken Mine. Ed Holt is project engineer. Pay Dirt 4-29-68

Active Mine List April 1968 - 5 men

Drilling and shaft work at the McCracken. Jerry Haynes, Kingman, in charge. FTJ WR 5-10-68

Visited the McCracken - no activity - learned from Jerry Haynes that work was terminated. But expected to resume after Jan. 1969. FTJ WR 11-8-68

Interview with E. S. Skeen, who is watching the property. Steve Radvak is mgr. for Magnum Consolidated. They intend to install a mill (CWT mill @ Twin Buttes) at the mine. Mining will be done by open cut methods. Reported reserves at the McCracken said to be 700,000 tons that is said to average 8 oz. Ag and 3% Pb. FTJ WR 1-10-69

Active Mine List April 1969 - 7 men - Harold Jones - Res. Mgr. - Magnum Cons. , Ltd.

McCracken mine at north end of McCracken Peak - grading road from Alamo-Yucca road to top of peak ridge. Also grading for mill side and foundations. No work at the mine but have spent about 2 years drilling. Have not moved any of the CWT mill. Vernon Taylor of the COD mine reported to have a 10% interest in the McCracken mine. FPK Field Trip Notes 6-15-69

DO NOT REPRODUCE

Interviewed Tait at Yucca. He reported that the McCracken Mine & Mill project has shut down pending new financing. TPL WR 6-13-59

Visited the McCracken Mill of Arivada Development Corp. The mill is down and the crew has been reduced to 6 men (from a recent maximum of 25). Percy Ramsden reports that poor recoveries and pinching of the ore in the McPherson cut and "other matters" forced a suspension of milling. A Mr. Blaine Watts, purchasing agent for U.S. Smelting at Tooele, was visiting with Ramsden on the afternoon of this visit; also a stockholder, Mr. Cates, was checking with Ramsden. The present plans are to make some mill tests and if successful attempt to obtain new financing for the purpose of rehabilitating the deeper portions of the mine. TPL WR 6-20-59

Visited the McCracken project. The mill was idle. Two men were present, not working, and they advised that Percy Ramsden was away rustling additional equipment for the mill and for undertaking underground rehabilitation and exploration. The information was of questionable reliability. In any event the mill shut down its curtailed activity on August 15 and has been idle since then. TPL WR 9-28-59

Visited the mill of the Arivada Development Co. (McCracken Mine). Percy Ramsden, mgr., was away reportedly getting additional milling equipment. Two men were at work repairing a crusher. No one was working at the mine. The reported plan is to strip an orebody on the mountain and then resume milling of material mined by open cut method. TPL WR 12-19-59

Visited Tate at Yucca. He advised that the McCracken mill was operating on ore being mined in an open cut on the north end of the mine. Road conditions prevented visiting the property. TPL WR 1-23-60

Visited the McCracken plant at Signal. Percy Ramsden was away temporarily. The mill was operating on a 3-shift per day basis (for the past week) following a smaller scale of operations since the start-up in the first week of January of this year. The company has been reorganized and is now named the McCracken Mtn. Mines Co. The officers apparently are the same as for the former Arivada Company. The company mailing address is Box 35, Yucca. Mr. George Bush is mill foreman and George Barbee is the assayer. Mr. Bush told me that two carloads of concentrate had been made since the start-up - the second car went out the day before this visit. The present mill feed is coming from an open cut above the Blacksmith workings on the north end of Mt. McCracken. (The previous ore supply came from an open cut in the McPherson workings on the south end of the mountain.) Fourteen men are working, all on company time except the hauling contractor. TPL WR 2-13-60

Visited the McCracken project. Percy Ramsden was present. The mine and mill were shut down. Some of the crew, not yet paid off, were waiting in camp for settlement due the company on the last concentrate shipment. Pratt-Gilbert has a lien on equipment in the amount of \$20,000. Percy said his connection with the operation has been terminated. The principals contemplate reorganizing and refinancing and presumably will explore and develop the mine before attempting to operate the mill again. Dan Wentworth would direct the new work. TPL WR 5-21-60

DO NOT REPRODUCE

Silver Mill Near Yucca Closes. - American Services Co. halted operations at its new Mindy mill located about 5 miles south of Yucca, Mohave County. Reportedly, the drop in the price of silver from \$15 to \$8 contributed to the mill closing.

Minerals & Materials a monthly survey Aug 1981

L-2

K083

McCracken Mining MINERAL SPECIMEN FOR DEPARTMENT OF LIBRARY AND ARCHIVES

(Do not write in this space)

(Wrap each specimen separately, or place it in a substantial bag, by itself, with a number attached, identical with the number on this card.)

Ore _____

Cabinet _____

No. _____

Specimen No. 6, collected by E. B. Holt
Field Engineer

Name of ore Galena Float Operator _____

Minerals contained Pb & Ag Mine active or inactive True

If inactive, when operated _____

Gangue (?) Specimen presented by _____

Depth at which taken Surface Date 4/11/40

Approximate mineral content (in terms of average per. ton) _____
Notes (Any general information regarding the history of the property.) _____

Pb = 79% - Ag = 15.02%

Name of mine or claim Float found

Group near McCracken Mine

District Owens - Monroe

Location (distance and direction by highway from what town) 1.5 mi. SE of Union

Owner of property None If more space is desired for notes, use other side.

909

7.0 x 4.5 x 3.5

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 5-23-58

Mine McCracken Mine & Mill

Location Signal area, Mohave Co.

Owner Arivada Mining Co.

Address _____

Operating Co. Sam Glass, et al

Address Antioch, Calif.

Pres. _____

Genl. Mgr. _____

Mine Supt. _____

Mill ^{Shift} ~~Supt~~ Foreman, Robert L. Hockett

Principal Metals. Lead, Silver

Men Employed 11, 2 shifts

Production Rate _____

Mill, Type & Capacity 30 TPD, 2 jaw crushers,

1-6" conical ball mill, 1 rake classifier,

~~Power, Amt. & Type~~ 6 flotation cells, 4 tables

Approximately 20 unpatented claims.

Signed _____

(Over)

Present operations Running test batches from
mine & dumps. Temporarily shut down because
of burned out transformer. Heads 6-16%
Pb & 4-25 oz. Ag.

New Work Planned 200 TPD mill, 3 shifts.
Development work done.

Misc. Notes Some of the minerals are galena,
anglesite, cerussite in a quartz and calcite
gangue.

The above information was supplied by Robert
L. Hackett verbally on May 23, 1958.

Lee Harrison

Searchlight West Inc.
4834 E Crystal Lane
Paradise Valley, AZ 85253
(602) 905-0414
FAX: (602) 905-0415

January 27, 1999

Mr. Nyal J. Niemuth
Senior Mining Engineer
State of Arizona
Department of Mines and Mineral Resources
1502 W. Washington
Phoenix, AZ 85007

Dear Mr. Niemuth:

As always I enjoyed our conversation today. Your help has really been indispensable to us in undertaking this project.

Searchlight West Inc. was incorporated in December 1998 and was seeded with most of the mining claims owned by Barbara McIntyre Bauman, President and myself. We envision adding one or more of the Nicholas Hughes mining properties, although this has not yet been formalized.

The properties are as follows:

1. **Treasure King** – These claims encompass the historic workings included in the former Royal Gold project. Present exploration plans focus on the central portion of the property, which has visible copper and iron staining. Royal does not appear to have done any drilling here, choosing instead to concentrate exploration in the northern portion of the property near an electric power line.
2. **Mockingbird** – We have acquired claims that cover the historic workings of the Mockingbird Mine, the Williamson Prospect, the Dandy Mine, the Great West Mine and the Pocahontas Mine. Anaconda previously believed that this entire area of several square miles was a detachment deposit with potential for large bulk tonnage gold resources. While we will be doing some informal grab sampling of dumps and obtaining chips from outcrops to confirm mineralization, we are not prepared to plan a drilling program until the Anaconda material is made available, which we plan to review in Laramie during the second quarter of 1999.
3. **Copper Cliff / McCracken** – The patented portions of the McCracken have been extensively mined by at least a half dozen companies on and off for over a hundred years. However, the unpatented portions of the major veins appear to have been scarcely touched, and we have acquired these by staking. Specifically, we have

acquired the silver / lead resources referred to by the prior operator, Arizona Silver, as the Lower Stonehouse Mine, the Afterthought Stonehouse vein and the Galena vein. We also have the Copper Cliff property, less than a mile to the east, which is believed to contain a gold resource in addition to the obvious copper resource. Water for milling has historically been a problem (at great expense the last operator hauled the crushed rock 40+ miles to Yucca for milling). While there may turn out to be a closer source of water, we have taken the precaution of acquiring the historic Signal City millsite 9 miles to the west on the banks of the Big Sandy River. Three early exploration targets are planned: (1) the Cruachan vein, which is a parallel vein in the northern portion of the property which appears to be almost virgin territory, (2) the lower (southern) portion of the Stonehouse vein, which was not mined by Arizona Silver and (3) the Copper Cliff property, on which Arizona Silver appears to have only done limited trenching.

4. **Hackberry** – This silver / lead property has long been owned by Nicholas Hughes of Las Vegas, and he has proposed to sell it to the company on lease purchase terms for a combination of cash and stock. While this agreement has not yet been finalized, we have assisted Mr. Hughes in his acquisition of claims covering the Hillside vein (historic Silver King and Big Ben mines) adjacent to his patented claims on the main Hackberry vein. Our initial assessment is that this property has the potential to be another McCracken, and it has been much less extensively mined (only \$1MM to \$3MM of recorded production).

Principals of the company are:

Barbara McIntyre Bauman – President. She has a general business background, and she has co-founded two other companies: (1) Varidyne, a Maryland data processing company and (2) Toymasters, a toy design, invention and consulting firm.

John McIntyre – Senior Geologist You met Mr. McIntyre and his wife, Betty, today. He is retired from the US Army. Past assignments included USGS, Army Corps of Engineers and the Manhattan Project (during World War II). Academics include Johns Hopkins.

Nicholas Hughes – While not presently an officer or director of the company, it is anticipated that he will become Chairman Emeritus of the company upon finalization of the Hackberry contract. Mr. Hughes is a Las Vegas real estate investor who has specialized in the buying, selling and trading of patented mining claims. He also has hands-on hard rock mining experience at the Golden Turkey, the Hillside and Bagdad mines in Arizona.

Sincerely yours,



Frederick C. Bauman

AUG 16 1984



Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

Start

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303*, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start/stop (please circle one) a mining operation.

COMPANY NAME Corval Development Inc.

App new address - photos on card

CHIEF OFFICER Thomas G. Miller

COMPANY ADDRESS 945 Gardencrest, Kingman, Arizona 86401

COMPANY TELEPHONE NUMBER (602) 757-7861

MINE OR PLANT NAME Corval Mill formerly the Mindy Mill

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

Mohave County, 4 miles S.E. Yucca, Arizona, Lake Alamo Road.

TYPE OF OPERATION Milling PRINCIPAL PRODUCT Silver

STARTING DATE 10/1/84 CLOSING DATE

DURATION OF OPERATION

PERSON SENDING THIS NOTICE Encie M. McKee

TITLE OF PERSON SENDING THIS NOTICE Book-keeper

DATE NOTICE SENT TO STATE MINE INSPECTOR August 14, 1984

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

Arizona Silver Corporation

U.S. Subsidiary

CORVAL DEVELOPMENT

~~Box 1001, VPR~~ 945 Gardencrest
Kingman, Arizona 86401

(602) ~~767-3870~~ 757-7861

August 14, 1984

Office of State Mine Inspector
705 West Wing, Capitol Bldg.
Phoenix, Arizona

Dear Sir:

At the present time we are in the process of preparing the mill for operation which is scheduled to start in production October 1, 1984.

Sincerely,

Thomas G. Miller

Thomas G. Miller
Area Manager

TGM/emm



STATE OF ARIZONA

DEPARTMENT OF MINES AND MINERAL RESOURCES

Mineral Building, Fairgrounds, Phoenix, Arizona 85007 • (602) 255-3791

MINE REPORT

Mine - McCracken Mine (f) and Mindy Mill
County - Mohave
Engineer - Nyal J. Niemuth
Date - May 21, 1985
Information from Corwin Coe of Arizona Silver Co.

Current Personal:

Project Manager - Don Lambert
Mill Manger, Metallurgist - Fred Wetloffler
Bookkeeper - Encie McKee
Mine Geologist - Tom Dodge
Mining Engineer - Kevin Hannah

Phone # at Mindy Mill 766-2373

The mine and mill are currently in production. Employment totals 15 at the Mindy mill and 60 at the McCracken mine. The mill is operating on a 10 day crushing and then 20 day milling cycle. Total milled and crushed to date is 19,000 tons of new ore. Combined open pit and underground ore is averaging about 12 oz. silver per ton with the underground running 15 - 19 oz. silver and the open pit 6 - 10 oz. silver. The ore also averages 1 & 1/2 % lead and a little zinc. No shipments of concentrates have been made yet but the first shipment will probably be sent to the smelter at Trail B.C. Canada. Some thought is being given to trying to cyanide the concentrates instead of shipping them in the future.

The mill circuit is still much like it was when Mindy was running it. Current mill capacity is estimated at 425 tons per day. The mill circuit begins at a jaw crusher, followed by a cone crusher and then to the ball mill where the ore is ground to about 100 mesh. From there the ore is introduced to the rougher float cells followed by two banks of 8 cells each. one bank is for the oxide ore and one for the sulfide ore. The majority of the ore is oxidized with most of the silver still being in galena and argentite. The separate 100tpd mill (2 banks of 6 float cells) is now being used as a scavenger circuit for the main mill. Concentrates then go to a thickner followed by a filter/dryer. Final concentrate contains about 500 oz. of silver per ton and between 25% and 50% lead. The lab contained in a separate building is still intact and is used for both fire and AA analysis.

Production from the mine is currently 320 tons per day. A contract trucker is using 4 over the road bottom dump trucks with each making four round trips from the mine to the mill. Arizona



STATE OF ARIZONA
DEPARTMENT OF MINES AND MINERAL RESOURCES

Mineral Building, Fairgrounds, Phoenix, Arizona 85007 • (602) 255-3791

Silver runs a van shuttle service to the mine and mill for the employees from Kingman. In addition some of the miners live in their trailers and recreational vehicles at a campsite near the mine entrance.

At the mine some production is coming from the open pit but most effort is being put into development and stoping/slusher drifting of the underground on the Stonehouse vein. In many areas the current stoping is being done to the surface so future visitors should be wary. In addition to production a drilling program is underway to identify reserves on the other two vein systems.

FROM: Nyal J. Niemuth and Richard R. Beard

DATE: April 17, 1984

SUBJECT: McCracken Mine - Corval

Information from Bob Back, Foreman and Kevin Hanna, Chief Geologist

Corval is leasing five patented claims, the Otsego, Alta, Atlanta, Peabody and Senator, owned by Teck Corp. and holds 53 McCracken and 7 Rita unpatented claims surrounding Teck's property. The three principal veins on the property are the Signal, Palace and Stonehouse.

They are currently driving a haulage drift (see map) on the Stonehouse vein but below the ore grade material. Drift is being driven with an Eimco mucking machine with a Young rubber-tired buggy for haulage. Track is being laid for production. Drift is now in 600 ft and will go to 900 ft and then finger raises will be driven to the ore zone which will be mined by shrinkage stoping. Work is being done 2 shifts per day with 2 men per shift. A maintenance shop building is under construction at the camp site.

A 1300 ton pilot leach pad at the camp site has been undergoing leaching for three months. Mr. Back said that the muck assayed 3.8 oz/ton Ag when placed on the pad and it is now down to 1.7 oz/ton. They are precipitating on zinc shavings and producing dore running 90% silver. Water is being hauled by truck from a well 3½ miles to the southeast. It was estimated that silver would have to go to \$12.00 an ounce for operation to be profitable.

Hamm

McKee & /



Office of State Mine Inspector STATE MINE INSPECTOR

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

OCT 7 1985

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303* we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start/stop (please circle one) a mining operation.

COMPANY NAME Corval Development Inc.
CHIEF OFFICER Rudolph Martin, Pres.
COMPANY ADDRESS P.O. Box 98, Yucca, Arizona
COMPANY TELEPHONE NUMBER (602) 766 2373
MINE OR PLANT NAME Corval Mill

RECEIVED
NOV 20 1985
DEPT. OF MINES & MINERAL RESOURCES

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)
Mohave County, 4 miles S.E., Yucca, Arizona, Lake Alamo Road

TYPE OF OPERATION Milling PRINCIPAL PRODUCT Silver
STARTING DATE CLOSING DATE 9/30/85
DURATION OF OPERATION
PERSON SENDING THIS NOTICE Encie M. McKee
TITLE OF PERSON SENDING THIS NOTICE Book-keeper
DATE NOTICE SENT TO STATE MINE INSPECTOR October 3, 1985

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

Hamm



STATE MINE INSPECTOR

OCT 7 1985

Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

NOTICE TO ARIZONA STATE MINE INSPECTOR

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COMPANY NAME Corval Development Inc.
CHIEF OFFICER Rudolf Martin, Pres.
COMPANY ADDRESS P.O. Box 98, Yucca, Arizona
COMPANY TELEPHONE NUMBER (602) 766 2373
MINE OR PLANT NAME McCracken Mine (A)

RECEIVED
NOV 20 1985
DEPT. OF MINES & GENERAL RESOURCES

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)
Mohave County, 40 miles in a SW direction from Yucca on Alamo Rd, then 3 miles in a Westerly direction

TYPE OF OPERATION Mining PRINCIPAL PRODUCT Silver

STARTING DATE _____ CLOSING DATE 9/30/85

DURATION OF OPERATION _____

PERSON SENDING THIS NOTICE Encie M. McKee

TITLE OF PERSON SENDING THIS NOTICE Book-keeper

DATE NOTICE SENT TO STATE MINE INSPECTOR October 3, 1985

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

NAME: MC CRACKEN (K)

COUNTY: MOHAVE

T 13 N R 15 W Sec. 30
SEC. 25 also 24 & 30 E 12600 DISTRICT: OWENS

Castaneda Hills 15

Mineralization: Ag Pb Th Rare Earth

Geology: Pegmatites + Fault Zones in Pre-Cambrian Schist + granite

Type Operation: 600' SHAFT 9000' Tunnels

Production: 48 thru 52 \$32,800

References:

Mohave Cty Card File

1140 - 625 Howe Street,
Vancouver, B.C. V6C 2T6
Telephone: (604) 689-5588

J O I N T N E W S R E L E A S E

JUNE 5, 1985

SILVER CONCENTRATE SALES INITIATED
AMALGAMATION AGREEMENT EXECUTED

During the past year Management has fulfilled its objective of placing the Companies' Silver/Gold Mining Properties located in the State of Arizona, U.S.A., into permanent production. In addition, the Amalgamation Agreement between the two Companies has been executed and shareholder approval is being sought at the Annual General Meeting of each Company, being held on June 27, 1985. The amalgamation ("Continental" shares are being exchanged for those of "Arizona" on a two (2) for one (1) basis) will result in many benefits accruing to the amalgamated Company.

McCRACKEN SILVER PROPERTY

Commencing in October, 1983 the Companies have successfully acquired approximately 130 mineral claims under four (4) separate Agreements surrounding the McCRACKEN MINE which is now in production. After one year of exploration and development commercial production was achieved at the McCracken Silver Properties as of January 1, 1985 and has been continuous ever since. The Companies' YUCCA MILL which has a present capacity of 500 tons per day is currently operating 24 hours a day on a 20 days per month schedule to coincide with present mine production. Ore grades which have been averaging approximately 13 oz/silver/ton are improving as the value of ore being mined from some of the recently developed stopes increases.

The Companies have produced approximately 20,000 ounces of silver per month since January and will now be producing in excess of 50,000 ounces per month due to improved ore values and elimination of start-up interruptions. The first trial shipment of concentrates from the Mill to the Cominco Smelter in Trail, B.C. has now been made and will result in the sale of approximately 50,000 ounces of silver. Management has also compiled a coordinated mining, development and exploration program to direct an ongoing production plan for future years based upon the present estimated known probable and possible reserves.

Further exploration and development programs on the Companies' WHITE HILLS SILVER PROPERTIES and EUREKA MINING PROPERTY recommended in recent Reports prepared by David P. Taylor, P.Eng., are currently under review by Management and will likely be implemented shortly.

In conclusion, Management is confident that having obtained the status of being a precious metals producer that shareholders will finally be rewarded, especially if precious metal prices improve, which present forecasts indicate will be the case.

Respectfully prepared and submitted
from information provided by the
Companies' Representatives and
Consultants.

On Behalf of the BOARD OF DIRECTORS

Charles S. Underhill
CHARLES S. UNDERHILL - Director

Capitalization

Authorized - 10,000,000 Shares
Issued - 5,517,932 Shares

Listed

Vancouver Stock Exchange / ARZ
NASDAQ ----- / ARZ NF

Capitalization

Authorized - 5,000,000 Shares
Issued - 3,663,086 Shares

Listed

Vancouver Stock Exchange / CVR
NASDAQ ----- / CTL SF

McCRACKEN (P) PROJECT
CORVAL DEVELOPMENT INCORPORATED
PRODUCTION & DEVELOPMENT SCHEDULE
with RESERVE ESTIMATES

MARCH 6, 1985

DEVELOPMENT & PRODUCTION TO DATE

Since aquisition of the property in January, 1984, Corval has concentrated its efforts in developing and placing into production the Northern most segment of the Stonehouse vein through an underground development program in conjunction with continuing production from the North pit.

The new underground Stonehouse Mine consists of the following development:

- 1620 Feet of drifting
- 685 Feet of raising
- 6 Stopes: - 3 Developed
 - 3 Partially developed.

Combined production from development and stoping has to date produced 15,531 tons of ore with a weighted average grade of 10.8 oz. AG/Ton. Of this tonnage, 8,461 tons at an average grade of 8.0 oz. AG/T has been shipped to the mill and the remaining 7070 tons of 14.4 oz. AG/Ton ore is broken and being drawn from the stopes via chutes at the haulage level.

The North pit has produced 8200 tons of 6.80 oz. AG/T ore which has subsequently been shipped to the mill.

PRESENT PRODUCTION & DEVELOPMENT

1.) STONEHOUSE U/G NORTH MINE

An additional 35,000 tons of 10 - 14 oz. AG/Ton of known proven and probable ore reserves are presently being mined at a rate of approximately 300 TPD.

2.) NORTH PIT

An additional 156,000 Tons of 8 oz. AG/Ton of known proven and probable reserves are currently being systematically developed and mined in the pit. The North pit area originally was estimated to contain 322,600 Tons of ore averaging 5.01 oz. AG/Ton by P.W. Clark but additional drilling and the production of 57,000 Tons by FWM-CNR in 1981 reduced this tonnage to an estimated 249,000 Tons of 5.01 oz. AG/T. (P.A. Drobeck, July, 1981)

A minimum grade cut-off of 8 oz. AG/T presently being implemented in the selective mine plan now in force at Corval's operation has further reduced this tonnage to 156,000 Tons @ 8 oz. AG/T.

RESERVE AND TARGET AREAS FOR EXPLORATION

The following table summarizes the known probable and possible ore reserves left at McCracken:

<u>AREA</u>	<u>TONNAGE</u>	<u>OZ.AG/T</u>	<u>% Pb</u>	<u>MINING</u>
Remaining North Pit	156,000	8.0	1.9(?)	Open Pit
South Pit	65,000	8.0	2.5	Open Pit
Central Palace Vein	20,000	8.0	2.5	Underground
Stonehouse North Mine	35,000	10.0	1.5	Underground
103 Tunnel Mine	10,000	10.0	1.5	Underground
Lower Stonehouse Workings	40,000	8.0	1.5	Underground
Galena Shaft	10,000	9.0	6.0	Underground
Signal U/G Mine	60,000	10.0	2.5	Underground
Afterthought Group	32,000	8.5	1.5	Underground Open Pit
Copper Cliff	<u>50,000</u>	<u>0.10AU/T</u>	-	Underground
TOTAL:	478,000			
AVERAGES:		8.55 OZ/T	2.09	

This reserve contains 3,660,000 ounces of silver, 5,000 ounces of gold and 8,945 tons of lead. Total production cost for mining, hauling and milling of the ore are as follows:

Underground Ore: \$ 28.48 per ton

Open-Pit Ore: \$ 21.78 per ton

C A C K E N (P) P R O J E C T

PROJECTED NET PROFIT

(After 7% Royalty & at 20¢ lb. Lead Price)

	SILVER = \$5.00/OZ		SILVER = \$6.00/OZ		SILVER = \$7.00/OZ	
	NET PROFIT	CUM. NET PROFIT	NET PROFIT	CUM. NET PROFIT	NET PROFIT	CUM. NET PROFIT
Mar /85	159,564	159,564	323,318	232,318	305,073	305,073
Apr /85	159,564	319,128	232,318	464,636	305,073	610,147
May /85	159,564	478,692	232,318	696,954	305,073	915,220
June/85	159,564	638,256	232,318	929,272	305,073	1,220,293
July/85	159,564	797,820	232,318	1,161,590	305,073	1,525,366
Aug /85	159,564	957,384	232,318	1,393,908	305,073	1,830,439
Sept/85	127,535	1,084,919	170,094	1,564,002	212,654	2,043,093
Oct /85	127,535	1,212,454	170,094	1,734,096	212,654	2,255,747
Nov /85	127,535	1,339,989	170,094	1,904,190	212,654	2,468,840
Dec /85	127,535	1,467,524	170,094	2,074,284	212,654	2,681,055
Cum. TOTAL NET PROFIT (March/85 thru December/85)		<u>\$1,467,524</u>		<u>\$2,074,284</u>		<u>\$2,681,055</u>
Jan /86	127,535	1,595,059	170,094	2,244,378	212,654	2,893,709
Feb /86	127,535	1,722,594	170,094	2,414,472	212,654	3,106,363
Mar /86	127,535	1,850,129	170,094	2,584,566	212,654	3,319,017
Apr /86	127,535	1,977,664	170,094	2,754,660	212,654	3,531,671
May /86	123,528	2,101,192	189,675	2,944,335	255,843	3,787,514
June/86	123,528	2,224,720	189,675	3,134,010	255,843	4,043,357
July/86	117,141	2,341,861	181,132	3,315,142	245,145	4,288,502
Aug /86	117,141	2,459,002	181,132	3,496,274	245,145	4,533,647
Sept/86	117,141	2,576,143	181,132	3,677,406	245,145	4,778,792
Oct /86	117,141	2,693,284	181,132	3,858,538	245,145	5,023,937
Nov 86	117,141	2,810,425	181,132	4,039,670	245,145	5,269,082
Dec /86	117,141	2,927,566	181,132	4,220,802	245,145	5,514,227
Cum. TOTAL NET PROFIT (Thru 1986)		<u>\$2,927,566</u>		<u>\$4,220,946</u>		<u>\$5,514,227</u>
Jan /87	117,141	3,044,707	181,132	4,401,934	245,145	5,759,372
Feb /87	117,141	3,161,848	181,132	4,583,066	245,145	6,004,517
Mar /87	117,141	3,278,989	181,132	4,764,198	245,145	6,249,662
Apr /87	117,141	3,396,130	181,132	4,945,330	245,145	6,494,807
May /87	117,141	3,513,271	181,132	5,126,462	245,145	6,739,952
June/87	106,003	3,619,274	164,245	5,290,707	222,508	6,962,460
July/87	106,003	3,725,277	164,245	5,454,952	222,508	7,184,968
Aug /87	106,003	3,831,280	164,245	5,619,197	222,508	7,407,476
Sept/87	106,003	3,937,283	164,245	5,783,442	222,508	7,629,984
Oct /87	106,003	4,043,286	164,245	5,947,687	222,508	7,852,492
Nov /87	106,003	4,149,289	164,245	6,111,932	222,508	8,075,000
Dec /87	106,003	4,255,292	164,245	6,276,177	222,508	8,297,508
Cum. TOTAL NET PROFIT (Thru 1987)		<u>\$4,255,292</u>		<u>\$6,276,321</u>		<u>\$8,297,508</u>

McCRACKEN DEVELOPMENT AND PRODUCTION SCHEDULE CORVAL DEVELOPMENT INC.

EXPLORATION / DEVELOPMENT
 STANDBY FOR PRODUCTION
 PRODUCTION

MINES	1985												1986												1987												1988												1989																																			
	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D																										
(1) STONEHOUSE MINE	35,000 tons at 10 oz Ag/ton																																																																																			
	Total cost \$ 980,000												Recovered oz Ag 297,000 oz Ag Recovered lbs Pb 892,500 lbs Pb																																																																							
(2) NORTH PIT													156,000 tons at 8 oz Ag/ton																																																																							
													Total cost \$ 3,276,000												Recovered oz Ag 1,060,000 oz Ag Recovered lbs Pb 1,978,000 lbs Pb																																																											
(3) PALACE VEIN MINE	20,000 tons at 8.03 oz Ag/ton																																																																																			
	Total cost \$ 260,600												Recovered oz Ag 136,913 oz Ag Recovered lbs Pb 682,040 lbs Pb																																																																							
(4) IO3 TUNNEL MINE													10,000 tons at 10 oz Ag/ton																																																																							
													Total cost \$ 325,000												Recovered oz Ag 85,000 oz Ag Recovered lbs Pb 255,000 lbs Pb																																																											
(5) SOUTH PIT													65,000 tons at 8 oz Ag/ton																																																																							
													Total cost \$ 1,517,750												Recovered oz Ag 442,000 oz Ag Recovered lbs Pb 2,212,000 lbs Pb																																																											
(6) LOWER STONEHOUSE CABIN MINE													40,000 tons at 8 oz Ag/ton																																																																							
													Total cost \$ 1,124,000												Recovered oz Ag 272,000 oz Ag Recovered lbs Pb 1,020,000 lbs Pb																																																											
(7) GALENA SHAFT MINE																									10,000 tons at 10 oz Ag/ton																																																											
																									Total cost \$ 310,000												Recovered oz Ag 85,000 oz Ag Recovered lbs Pb 1,020,000 lbs Pb																								Continuing production from this point is depended on exploration developments.																							
(8) SIGNAL U/G WORKINGS																									60,000 tons at 10 oz Ag/ton																																																											
																									Total cost \$ 1,204,000												Recovered oz Ag 510,000 oz Ag Recovered lbs Pb 1,020,000 lbs Pb																																															
(9) COPPER CLIFF																																					50,000 tons at 10 oz Au/ton																																															
																																					Total cost \$ 927,500												Recovered oz Au 4250 oz Au																																			
(10) AFTERTHOUGHT STONEHOUSE																																					32,000 tons at 8.5 oz Ag/tons																																															
																																					Total cost \$ 749,000												Recovered oz Ag 213,000 oz Ag Recovered lbs Pb 816,000 lbs Pb																																			

AREA	TONNAGE	oz/ton Ag	%Pb
Stonehouse Mine	35,000	10.0	1.5
North Pit	156,000	8.0	1.9(?)
Palace Vein Mine	20,000	8.0	2.5
IO3 Tunnel Mine	10,000	10.0	1.5
South Pit	65,000	8.0	2.5
Lower Stonehouse Cabin Mine	40,000	8.0	1.5
Galena Shaft Mine	10,000	10.0	6.0
Signal U/C Workings	60,000	10.0	2.5
Copper Cliff	50,000	0.10 Au/ton	
Aftersought Stonehouse	32,000	8.5	1.5
Total	478,000		
Total Gross Reserves : 3,670,000 oz Ag			
5,000 oz Au			
8,945 tons Pb			

Suite 1140 - 625 Howe Street,
 Vancouver, B.C. V6C 2T6
 Telephone: (604) 689-5588

January 24, 1985

J O I N T N E W S R E L E A S E

PERMANENT PRODUCTION ESTABLISHED AT McCRACKEN SILVER PROPERTY
 CORPORATE AMALGAMATION PROCEEDING

Production at the Companies' McCRACKEN Silver Mine (Arizona-60%;-Continental-40%) has substantially increased and is now averaging approximately 350 tpd of combined underground and open-pit ore.

UNDERGROUND ORE

Production from the first 3 stopes on two levels of the Stonehouse vein account for 210 tpd of the total mine production with the average ore grade being 12 - 15 oz. Ag/T, 1.5% Pb/T and minor gold values. Underground production will continue to increase to approximately 500 tpd in the next few weeks as stopes now in the development stage are brought into production.

OPEN-PIT ORE

Production from the open-pit is presently averaging 140 tpd of 7 - 9 oz. Ag/T, 1.5% Pb/T and minor gold values. The increase in ore grade in the pit in contrast to the 4 oz./T average mined in the past is contributed essentially to the selective mining method now being implemented by the companies. Further test drilling is being conducted to confirm additional reserves blocked out below the present bench level.

Total production costs for mining, hauling and milling of the ore are as follows:

	<u>Underground Ore</u>	<u>Open-Pit Ore</u>
Mining	\$ 12.20 / Ton	\$ 5.50 / Ton
Hauling	6.75 / Ton	6.75 / Ton
Milling	<u>9.53 / Ton</u>	<u>9.53 / Ton</u>
TOTALS	<u>\$ 28.48 / Ton</u>	<u>\$ 21.78 / Ton</u>

About 85% of the silver and lead is extracted from the ore at the company's 500 tpd Flotation Mill located near YUCCA, Arizona. At the present time the mill is operated 24 hours per day on a 20 days per month schedule to coincide with mine production. As production at the mine increases, the mill production will likewise expand.

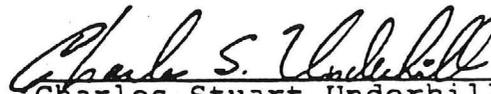
Lead-silver concentrate derived from the milling of McCracken ore is presently being stockpiled while several possible marketing channels are being examined by the Companies.

CORPORATE AMALGAMATION

The proposed amalgamation of the two companies previously announced on December 4, 1984 is proceeding with financial data and property evaluation work currently being compiled. It is intended that the shares of Continental Silver Corp. will be exchanged for those of Arizona Silver Corporation on a two (2) for one (1) basis. The proposed amalgamation is subject to the approval of the appropriate regulatory authorities and the shareholders of both companies. It is anticipated that Shareholders Meetings will be held in the latter part of March or early April of this year.

Respectfully prepared and submitted
from information provided by the
Companies' Representatives and
Consultants.

On Behalf of the BOARD of DIRECTORS



Charles Stuart Underhill - Director

Arizona Silver Corporation

Capitalization

Authorized - 10,000,000 Shares
Issued - 5,485,432 Shares

Listed

Vancouver Stock Exchange / ARZ
NASDAQ ----- / ARZ NF

Continental Silver Corp.

Capitalization

Authorized - 5,000,000 Shares
Issued - 3,663,086 Shares

Listed

Vancouver Stock Exchange / CVR
NASDAQ ----- / CTL SF

The Vancouver Stock Exchange has neither approved nor disapproved the contents of this News Release.

Suite 1140 - 625 Howe Street,
Vancouver, B.C. V6C 2T6
Telephone: (604) 689-5588

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J O I N T N E W S R E L E A S E

JUNE 5, 1985

SILVER CONCENTRATE SALES INITIATED
AMALGAMATION AGREEMENT EXECUTED

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In conclusion, Management is confident that having obtained the status of being a precious metals producer that shareholders will finally be rewarded, especially if precious metal prices improve, which present forecasts indicate will be the case.

Respectfully prepared and submitted from information provided by the Companies' Representatives and Consultants.

On Behalf of the BOARD OF DIRECTORS
Charles S. Underhill
CHARLES S. UNDERHILL - Director

Capitalization

Authorized - 10,000,000 Shares
Issued - 5,517,932 Shares

Listed

Vancouver Stock Exchange / ARZ
NASDAQ ----- / ARZ NF

Capitalization

Authorized - 5,000,000 Shares
Issued - 3,663,086 Shares

Listed

Vancouver Stock Exchange / CVR
NASDAQ ----- / CTL SF

STATE NEWS

ALABAMA-- (see also UNITED KINGDOM)

Steel Employees Recalled. - The Fairfield Works of United States Steel Corp. in Birmingham has recalled 700 employees to restart a blast furnace shut down since August, and 300 workers for the railmaking facility which closed last June. With this recall, employment at Fairfield will be up to 5,400, leaving about 3,000 workers still laid off. Companywide shipments of steel in the first 9 months of 1980 were lower than any similar period since 1961. The company is considering constructing a \$400 million steel tube plant in the State based on the boom in the oil exploration business.

ALASKA

Most Westerly Gold Mine To Open. - Work to reopen the Apollo lode gold mine began in late 1980 by Catallina Resources, Inc. An exploration drilling program will continue through the winter. Ore reserves at the site were estimated at 2.5 million tons averaging 0.4 ounce gold per ton, with additional values of silver, lead, copper, and zinc. Apollo mine is located on patented claims on Unga Island of the Shumagin Group, south of Port Moller. The property was an active producer of gold and silver from 1891 to 1908.

Resources Mapped. - High-altitude aircraft and satellite photos of much of Alaska's land are available in black and white and color infra-red as the result of a photographic program undertaken in the last few years. Information is available from the University of Alaska's Geophysical Institute at Fairbanks, the U.S. Bureau of Land Management at Anchorage, and the Agricultural Stabilization & Conservation Service in Salt Lake City.

Mineral Exploration in 1980. - The Division of Geological and Geophysical Surveys reported 19,359 new mining claims recorded in the first 10 months of 1980, or about double the number of new claims recorded in the same period in 1978 and 1979. Exploration expenditures are believed to be about the same for 1980 as in 1979, but less than the \$60 million to \$70 million spent in the peak year of 1978.

ARIZONA

Financing Pollution Control. - Phelps Dodge Corp. was awarded approval by Pima County authorities to refinance \$28 million in tax-free bonds issued in 1973 to pay for pollution control equipment. Phelps Dodge has estimated that it will spend \$100 million over the next 5 to 7 years to meet Federal and state air pollution standards.

Silver-Lead Mine Reopened. - Production of silver-lead ore has resumed at the old McCracken mine, now the Gunslinger mine, in Mohave County by Canadian Natural Resources Ltd., of Calgary, Alberta, and Fisher-Watt Mining Co., of Denver. Reserves have been estimated at 3 million ounces of silver, which should have a mining life of 2 to 6 years. The ore is processed at the Yucca millsite, 45 miles to the north.

NARROW-GAGE SCOUT NOVEMBER 1980 307-266-1392

ARIZONA

THE CONGRESS CONSOLIDATED GOLD MINE. Heap leaching is continuing on the old dump. D. W. Jacquays, President, indicates a 300 ton cyanide plant using agitation and thickeners is in the plan. They are presently using the Merle-Crowl system with very satisfactory results.

SUNBURST MINING CO., leasee and operator of the Vekol Mine in Pinal County, is presently working the dumps of the 1890 underground mine with four employees. Heap and forced-leaching methods use equipment developed by the Machine Development Co., a joint-venture partner with Sunburst. The property, located about 30 miles southwest of Stanfield, Arizona, is owned by Federal Mines.

MINDY INC reports the Gunslinger Open Pit mine is presently producing 500 tons per day with millheads running 6 ounces per ton silver and 1.5% lead. The concentrates are shipped to Sunker Hill. Waste stripping in the pit is performed by D-10 Cats at the rate of 600 to 1000 tons per hour, a noteworthy feat considering the rock formation according to the owner, Bud Roswell of Canadian Natural Resources, Calgary.

(file)

11/21/84

McCluckey

STATE MINE INSPECTOR



JAN 3 1984

Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303*, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start/stop (please circle one) a mining operation.

COMPANY NAME CROWN DEVELOPMENT INC.

CHIEF OFFICER RUDOLF MARTIN, PRES.

COMPANY ADDRESS Box 1001, U.S.F. Highway, Ash 86001

COMPANY TELEPHONE NUMBER 602-767-3575

MINE OR PLANT NAME McCLUCKEY MINE

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

ITSON COUNTY, McCLUCKEY PAV. TEN. RIT. TEN.

2.10 MILES IN A SW DIRECTION FROM QUINN ON

STATE ROAD. THEN SOUTH IN A WESTERN DIRECTION.

TYPE OF OPERATION Mining PRINCIPAL PRODUCT Production of Silver Ore

STARTING DATE JAN. 3, 1984 CLOSING DATE N/A

DURATION OF OPERATION NOT KNOWN AT THIS TIME.

PERSON SENDING THIS NOTICE CROWN COE

TITLE OF PERSON SENDING THIS NOTICE OPERATION MANAGER

DATE NOTICE SENT TO STATE MINE INSPECTOR DEC. 29 1983

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ^oGUNSLINGER (McCracken)

Date June 3, 1980

District Owens (Mohave County)

Engineer Clifford J. Hicks *CJH*

Subject: Field Visit To Mill

*Gordon Musgrave, P.O. Box 16284 Denver, 80216
(as per C. Hicks)*

In a joint venture Fischer-Watts (property position and exploration) and Canadian Natural Resources, Ltd. (financing), have let a management contract to American Mine Services of Denver to operate the ^oGunslinger Mine (formerly the ^oMcCracken Mine) and the mill at Yucca (formerly the ^oBoriana Mill).

The DMR engineer met with concerned parties in the office trailer at the mill site four miles south of Yucca, Arizona. Present were: ^oM.D. Rowswell, Executive VicePresident, ^oCanadian Natural Resources Ltd., 300 5th Avenue S.W., Calgary, Alberta T2P 3C4 Canada, phone (403) 264-4036; and ^oPerry Durning, Geologist, Fischer-Watts, 114 Tucker, Kingman, Arizona 86401, phone 753-1622 (office), 753-1671 (home). Robert Green is the Project Manager.

^oLead-silver ores from the Gunslinger Mine tailings will be truck hauled 45 miles to the mill. There are 25,000 tons of +4.0 oz.Ag/ton tailings at the mine which will eventually be open pitted. Primary and secondary crushing will be done at the mine and tertiary grinding at the mill. The mill is being expanded to handle 400-500 tpd. Heavy equipment is being purchased in Mesa, Arizona.

Hiring will be done locally with a labor force of 38 anticipated. They now need a mill superintendent, a mine superintendent, a mining engineer, a metallurgist, and mill hands experienced in flotation.

Start-up is expected by July 1, 1980.

CJH:mw

A 2 / DEPARTMENT OF MINER RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: W. Perry Durning, Exploration Manager
Address: P. O. Box 402, Oatman, AZ 86433; Phone: 753-1622
2. Mine: McCracken 3. No. of Claims - Patented _____
Unpatented _____
4. Location: Mohave Co.
5. Sec _____ Tp _____ Range _____ 6. Mining District _____
7. Owner: _____
8. Address: _____
9. Operating Co.: Fischer-Watt Mining Co., Inc.
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Ag, Pb 14. No. Employed: _____
- 15. Mill, Type & Capacity: The Borianna Mill at Yucca, AZ
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Mountain States Engineers in Tucson is doing metallurgical
test work on ore from dump to upgrade recovery. Plan to truck ore to the
mill and hope to treat both oxide and sulfide silver; hope to convert mill
18. ~~Misc Notes:~~ to treat both ore types. Plan initial rate at 150 tons per day.
Possible to start production from dump in two months; may begin mining
Fresh ore in six months.
Mr. Pete Drobeck is geologist on property.
- _____
- _____
- _____
- _____
- _____
- _____

Date: 5/5/80

/s/ M. N. Greeley
(Signature) (Field Engineer)

PRELIMINARY EXAMINATION REPORT

BY

C. C. STERNS & H. D. CLARK

FEB. 23, 1957

MCCRACKEN MOUNTAIN MINES

Location

This property is located in Mohave County, Arizona, Owens Mining District, Arizona, and is about 43 miles southeast of Yucca, Arizona. Yucca, Arizona, is about twenty-five miles southeast of Kingman, Arizona. The property is readily accessible via good dirt and gravel road from Yucca, Arizona.

Property

The holdings consist of four patented and fifteen unpatented claims. The patented claims are: Peabody, Alta, Senator and Atlanta claims. Another patented claim called the Otsego is under different ownership, but is located strategically on one end of the group, and should be acquired. This, we were given to understand, can readily be done, either by direct purchase or lease.

Occurrence

The operation has been confined to McCracken Mountain which is isolated at the end of a small range. A huge vein system runs through the heart of the mountain, which consists largely, we believe, of granite. We did note from our brief observation that there were considerable amounts of schist, gneiss, porphyry and rhyolite. The vein system is an intricate mass of splits or intersections of veins. Seemingly, there are two

systems; namely, the McCracken system, in which the vein varies from about 20 feet to 50 feet in width; and the Atlanta system, which is not as massive and intersects the McCracken vein on the Peabody and Alta claims.

Production

There have been four, and possibly five, distinct major mining operations on the property. At the time of their inception, they controlled and operated not more than two claims and, from all indications, were inadequately financed and poorly managed. One operation, however, on the Peabody and Alta claims seemed to be of a different sort, as they had a substantial mill and did some development work. Sometimes, during their operation or later, by lessees, the upper workings of this area were gutted and left in rather bad shape. This area, however, can be entered via the Blacksmith Tunnel on the Peabody claim, and virgin stopeing ground can be sampled. All the other workings seem to be in fairly good condition, considering the time they have been standing. Attached are records of shipments of crude ore and concentrates and a report by E. F. Griffith, in which he states that the first production from the property was from a high-grade silver deposit on the top of the mountain, which produced about \$4,000,000, a fact which he has fairly well authenticated. The figures attached represent only part of the actual production from the mountain, as figures are available only in part from some of the more recent operations.

From our observation of the property, it was apparent that a large portion of the work was done in securing higher grade shipping areas, with little thought being given to the utilization of the lower grade milling

ores. This fact is borne out by observation of dumps and undisturbed areas in the workings on the veins. Some of the dumps, where they were inaccessible to trucks, may contain some shipping ore. Dumps from the inaccessible portions, together with some from the other areas, will amount to a considerable tonnage, and were used in estimation of past production.

Reserves and Potentials

A short crosscut and a 1,000-foot drift on the Atlanta vein have never been stoped. Some raises were extended to surface for ventilation, but very little, if any, other work was accomplished. This drift has 200 to 250 feet of stoping ground above it, and could afford a very large tonnage. Extension of this drift another 1,000 feet until it intersects the McCracken vein could block out a very large tonnage.

The attached stopes map indicates a very considerable reserve on the McCracken vein system and workings.

We were advised that the 600-foot shaft on the Peabody claim encountered values in copper and gold at or near the bottom, but we could not enter to check this.

There is a very considerable amount of mill-grade ore and possibly a small amount of shipping ore in dumps at various locations on the property.

Development

A considerable amount of surface and underground drilling are indicated before any substantial investment is made in the property. This need not be a costly operation. Several sites were noted where a crosscut

tunnel could be driven into the mountain to intersect the vein system at a point 200 to 300 feet under the present workings, thus opening up a great area of virgin territory. This would follow if drilling and sampling were favorable. The accuracy of the attached maps cannot be verified; and for that reason, we feel a survey of the surface, all the workings available, elevations of various workings, etc. should be accomplished before doing any development work. Also, the various workings should be adequately sampled and a map made of this work.

Conclusion

It is our opinion that this property is not worked out. Even in the mined areas, large tonnages of ore are available. It is our feeling that a company, properly financed and managed, could conduct a long and profitable operation here.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS' REPORT

Mine ✓ McCracken

Date April 27, 1959

District Signal, Mohave County

Engineer Travis P. Lane

Subject: Visit to mill

The mill started up April 11 of this year. Percy Ramsden reported that no "bugs" had been encountered and that the present milling rate is 175 TPD. Crusher plant difficulties however have prevented a steady milling rate but these seemed to have been corrected at the time of this visit.

Crushing and transporting of ore from the mine to the mill (as well as shipment of concentrates) is handled by a contractor, Milt Conn. The contractor originally planned to put his portable crushing plant at the mine, and to stockpile crushed ore and truck it to the mill as needed. The operators have changed this plan, both because of the large working capital required and because of anticipated difficulty in properly blending mill feed as to grade and character. The crushing plant is operating on a hillside immediately above the mill. The plant consists of a 20" x 30" primary crusher followed by a secondary and tertiary crusher resulting in a 3/8" feed to the ball mill.

Mining is in progress in a cut on the McPherson vein near the top of McCracken Mountain. Mr. Ramsden estimated that some 30,000 to 40,000 tons of ore can be mined here by open cut method for a width of 50-60' and for a length of approximately 300'. 3 men are employed in the cut and the working place is currently supplying all the mill feed. Two classes of ore occur fairly well segregated in the vein. One is oxidized and according to Mr. Ramsden it assays 14 oz. Ag and 4% Pb. The other is sulphide ore and assays about 4 oz. Ag and 9% Pb. Concentrates for the two classes of ore run respectively 500-1500 oz. Ag, 48-50% Pb; and 61-70 oz. Ag, 48-61% Pb.

Three truckloads of concentrates (11 to 25 tons each) have been shipped to the U.S. Smelting Co. at Midville, Utah, and another load was about ready to go.

The company employs 10 men at the mill and 3 at the mine. The crushing contractor employs 3 men. A Mr. Traylor has been granted a lease on the Galena shaft workings, (Galena vein) and hopes soon to begin shipping 40% Pb ore containing 30 to 40 oz. Ag to the mill. This ore value is claimed to exist in the bottom of the shaft (100'?).

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine McCracken ✓
District Signal, Mohave County
Subject: Visits & interviews - Jan., Feb.

Date Feb. 27, 1959
Engineer Travis P. Lane

Owner: Ben F. Griffith, Wickieup, Arizona ✓

Operator: Arivada Development Corp., Box 118, Wenden, Arizona. Pres.-Alec Brizard, ✓
V.P. - Dan Wentworth, Mgr. - P. H. Ramsden, Metallurgist - Rip V. Thompson, Mill Supt. -
Geo Bush, Mine Supt. - Sheldon Heath. ✓

Mill construction is reaching completion and the mill start-up is anticipated toward the end of March. ✓

Crushing will be done by a Contractor, M. D. Conn, who will move in a portable plant near the top of McCracken Mtn. where the first mining operations will be by open cut in a section of the Otsego vein. The ore will be dumped into a 12' x 12' hopper and fed by pan conveyor (36" x 8') into a 20" x 36" jaw crusher. The primary crusher product 6" (?) will be stockpiled and picked up as needed and reduced further in a 10" x 20" jaw crusher followed by a R 322 Allis Chalmers cone crusher operating in closed circuit with a 3' x 6' screen. The final crushed product (3/8") will be stockpiled and picked and trucked to the mill (9 miles) as needed. The capacity of the crushing plant is estimated at 35 TPH.

The mill flowsheet consists essentially of a 200 ton fine ore bin, 7' x 6' ball mill and a flotation section to produce a lead concentrate and a silver concentrate. The estimated mill capacity will be 150 TPD. ✓

At the time of the last visit, Feb. 16, 11 men were employed at the mill and 3 at the mine.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine McCracken

Date Oct. 27, 1958

District Signal District, Mohave Co.

Engineer Travis P. Lane

Subject: Visit

The McCracken mill and the Arivada Mining Co. was visited on Oct. 24th. Three men including a recently appointed metallurgist, Rip Thompson, were working at the mill site. No one was working at the mine.

A start has been made toward construction of a combination office and testing laboratory. Most of the laboratory equipment is on the ground. Inauguration of the program for mill construction and mine development is waiting upon completion of financing now in progress.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine [✓] McCracken

Date Sept. 29, 1958

District McCracken, Mohave Co.

Engineer Travis P. Lane

Subject: Status of property

The property is operated by the Arivada Development Co., Box 118, Wenden, Arizona, also Box 27, Yucca, Arizona. Dan Wentworth is Vice President and General [✓] Manager. Percy H. Ramsden has recently joined the project as Chief Engineer. "Rip" V. Thompson is the metallurgist and Sheldon Heath is the Mine Foreman.

Mr. Ramsden reports that the company is adequately financed to undertake a program which includes the installation of a 100 TPD pilot plant at the mine (the present hay wire plant will be scrapped), and extensively developing the mine. The expectation is that a large tonnage milling operation will eventually result. It is anticipated that mill heads for the pilot mill will average 7 to 8% Pb and 8 to 12 oz. Ag. The ore minerals are mixed oxide and sulphide.

The property has a record of large silver production prior to 1906, and during the period 1919 - 1922 a 200 TPD plant was operated for part of the time milling a total of 91,000 tons reportedly assaying 7% Pb and 9.5 oz. Ag.

There are 4 prominent N-S striking veins in the property, 3 of which have been developed. The main shaft is 600' deep on a 70° incline, with levels at 50, 100, 250 and 400 feet. It follows the vein to 350' at which point the vein dips out of the shaft. A crosscut tunnel has been driven 200' of the 1000' required to intersect the main vein below the present workings.

4

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine **McCracken**

Date **June 25, 1958**

District **Owens (McCracken), Mohave Co.**

Engineer **T. P. Lane**

Subject: **Visit to Mill**

Owner: **Ben F. Griffith**
Wickieup, Arizona

Operator: **Arivada Development Co.**
Box 35, Yucca, Arizona

Manager: **Art Wentworth**

Mill Supt.: **Frank Ansell**

Mine Foreman: **Sheldon Heath**

The mill was idle at the time of visit. The motor driving the ball mill burned out about 2 weeks previously forcing a shut-down, and Mr. Wentworth went to Salt Lake City to get another motor. Also, it is reported he hoped to obtain finances for an expansion of the mill capacity to 200 TPD from 50 TPD. The mill is on the west bank of the Big Sandy at Signal, and the mine is 9 miles S from the mill.

The plant was started up in February of this year and has been milling mine dump material at the rate of 40 to 50 TPD. The values are mostly silver with appreciable lead. According to Mr. Ansell, Mill Supt., the grade milled to date has been about 12 oz. Ag, 8% Pb, and the first lot of concentrates shipped assayed 47% Pb and 170 oz. Ag. The lead mineralization is about half sulphide and half oxidized. Recoveries are about 80% of the lead and 85% of the silver.

Mill equipment consists of 2 jaw crushers, a 20" x 5' Hardinge mill, 6 - 24" x 24" Denver Sub-A flotation cells and 4 small tables. A duplex jig is on the ground but not set up. Power is a 250 HP Murphy Diesel driving a 100 KW generator.

2 men were employed at the mine on road work and construction of a bin. The normal operating crew is 12 men - 3 at the mine and 9 at the mill, including an assayer and the mill superintendent.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ~~McCracken~~ ✓ McCracken
District Owens (McCracken)
Subject: Present Status

Date November 8, 1952.

Engineer Geo. F. Reed

This is one of the oldest properties in the state. It was operating in the 70s and ~~had~~ had a stamp mill, using amalgamation to recover silver. Later in the 1920s, it had a gravity-flotation mill recovering silver and lead. Often, it is said, the high silver and high lead values are in different shoots in the veins. The ores are partially oxidised with considerable manganese and are quite refractory although the mine has had a fairly large production.

✓ Present owner of practically all the claims on McCracken Mountain is Ben F. Griffith, c/o McCracken Mine, Wikieup, Arizona, or 675 So. Duncan Ave., Los Angeles 22, Calif., phone Angeles 4889. He holds four patented and about 15 unpatented ~~claim~~ claims. Patented claims are Peabody, Alta, Senator and Atlanta. An adjoining patented claim, the Otsego is owned by Bruce Kirkpatrick of Eagle Rock, Calif. The property is reached by 42 miles of graded road Southward from Yucca. The claims are located in Sections 19 & 30 of Twp. 13N, Rge. 14W, and in Sections 24 & 25, Twp. 13N, Rge. 15W. They are in Mohave County.

The ~~at~~ water supply is about nine miles from the mine in the river at Signal. Here Mr. Griffith has set up some bins, screens, feeders and tables and is running through some tailings and freshly ground mine ore on an experimental basis.

At the mines, John and E.A. Boyer of Aguila are leasing from Griffith and getting ready to sink on some lead ore on the North-West side of the hill. They are on the Galena Unpatented claim.

The mine is extensively developed above the lowest (Blacksmith Tunnel) by adits. From the portal of this adit, there is a steeply inclined shaft said to be 600 feet deep and practically dry. Quite a little stoping is said to have been done from the 250 foot level in this shaft and from there to the surface. Average dip is about 68 degrees in the shaft. It is said that some deep inclined diamond drill holes from the lower levels cut some copper ore. The ore is brecciated and cemented and replaced country rock with banded comb structure, much quartz and barite. Much manganese stain is found in the ore. Stopping widths have been from three or four up to 20 feet or more in the "glory hole" about the main adit.

George F. Reed

The foregoing report was made by us from personal observations while on the property during the week of Feb. 15, 1937.

Rep. engineers

H. D. Clark
H. D. Clark
C. C. Starns
C. C. Starns

Dated: Feb. 26, 1937.

SETTLEMENT BY SMELTERS
OF
RAW ORE SHIPMENTS FROM MCGRAWKEN Mt. MINES

Date	Lot	Dry wt. lbs	Price	Lead %	Silver Oz.	Net amount paid before deducting freight.
6-24-48	172947	81,073	17.50	17.50	0.90	\$ 1,140.70
8-23-48	173061	80,775	19.50	22.30	0.90	2,283.35
8-26-48	24388	90,965	19.50	19.80	0.90	2,200.44
9-22-48	XXXXX S.F.	73,478	19.50	17.90	- --	1,540.10
10-27-48	84070	102,606	19.50	16.80	3.90	2,055.75
11-23-48	81323	109,480	21.50	14.20	1.35	1,854.59
12-16-48	86590	58,822	21.50	14.55	1.90	1,048.21
10-31-49	Truck	18,374	14.93	40.40	15.00	872.03
1-12-49	172900	74,287	21.50	23.98	1.60	2,584.12
3- 4-49	9828A	90,566	21.50	19.00	2.90	2,568.45
3-31- 49	82524	88,628	18.00	10.60	3.00	724.53
4-11-49	172082	106,142	16.67	13.50	4.60	1,247.70
3-31-49	Truck	11,000	?	17.00	2.60	147.73
11-22-48	"	12,040	?	12.00	4.00	133.95
12-10-48	"	13,484	?	16.50	4.00	255.50
12-13-48	"	9,380	?	17.30	3.40	197.75
12-20-48	"	10,780	?	21.20	3.00	285.67
1- 2-49	"	8,036	?	33.00	1.50	371.26
7- 1-50	F."	6,277	?	45.60	9.90	204.19
9- 3-50	B."	3,375	?	23.50	181.70	332.47
10-30-50	B "	4,030	?	25.60	46.90	165.65
9- 8-50	B "	3,574	?	24.60	190.10	349.71
1-25-51	B Car	28,492	17.00	30.50	1.80	1,018.73
7-19-51	2013	90,196	17.00	23.70	11.30	3,455.49
2-21-52	317	50,020	19.00	14.90	6.00	953.88
4-28-52	1278	115,836	19.00	31.20	1.10	4,843.88
						<u>\$ 32,835.83</u>

CONCENTRATE SHIPMENTS
McCRACKEN PROPERTIES

Date				Net Payments
July	19, '22	25,788	tons at 289.32	\$ 6,865.59
Aug.	12, '22	28,259	" " 171.90	4,335.97
Dec.	28, '22	33,173	" " 137.90	3,994.68
Jan.	1, '23	28,173	" " 160.36	3,975.93
Jan.	6, '23	27,000	" " 87.82	2,731.14
Jan.	10, '23	27,000	" " 107.98	2,915.46
Feb.	6, '23	33,000	" " 164.65	5,466.38
Feb.	26, '23	26,400	" " 168.89	4,458.69
Mar.	13, '23	35,099	" " 192.03	6,740.06
Mar.	20, '23	28,000	" " 200.00	5,600.00
Mar.	28, '23	27,400	" " 222.82	6,105.76
Apr.	6, '23	24,000	" " 297.98	7,151.52
Apr.	16, '23	24,800	" " 220.32	5,463.94
Apr.	19, '23	31,500	" " 194.56	6,128.64
Apr.	23, '23	21,800	" " 183.04	3,990.27
May	5, '23	26,400	" " 194.43	5,132.95
May	10, '23	27,500	" " 205.66	5,655.65
May	15, '23	24,000	" " 207.61	4,982.64
May	22, '23	23,400	" " 238.11	5,571.77
May	24, '23	31,508	" " 194.18	5,552.75
May	25, '23	32,264	" " 206.63	6,074.01
May	28, '23	24,780	" " 230.65	5,715.50
June	2, '23	29,750	" " 166.60	4,956.35
June	4, '23	24,406	" " 238.58	5,370.98
June	5, '23	26,057	" " 200.33	4,744.79
June	9, '23	25,500	" " 158.05	4,030.27
June	10, '23	34,024	" " 96.83	2,780.71
June	15, '23	25,500	" " 159.07	4,056.28
June	20, '23	25,500	" " 142.23	3,526.86
June	20, '23	27,285	" " 165.29	4,027.61
June	20, '23	31,241	" " 171.62	4,814.08
June	26, '23	27,216	" " 152.82	3,682.99
June	26, '23	26,340	" " 151.98	4,003.15
June	29, '23	25,098	" " 161.68	3,589.23
July	2, '23	26,220	" " 149.24	3,913.07
July	9, '23	26,100	" " 148.65	3,879.76
July	10, '23	25,866	" " 146.10	3,309.64
July	13, '23	28,771	" " 152.10	3,872.58
July	14, '23	31,680	" " 146.17	4,630.66
July	17, '23	26,665	" " 148.49	3,490.07
July	23, '23	29,920	" " 164.19	4,912.66
July	28, '23	29,971	" " 142.47	3,734.67
July	30, '23	31,080	" " 140.57	4,368.91
Aug.	7, '23	34,114	" " 157.13	4,762.13
Aug.	11, '23	29,574	" " 166.00	4,392.19
Aug.	13, '23	37,100	" " 169.59	6,291.78
Aug.	16, '23	25,558	" " 148.56	3,472.06
Aug.	20, '23	32,400	" " 144.80	4,691.52
Aug.	21, '23	25,457	" " 168.54	3,821.72
Aug.	25, '23	27,600	" " 132.68	3,661.96
Aug.	31, '23	28,000	" " 173.54	4,859.12
Sept.	1, '23	39,575	" " 175.11	6,227.18
"	6, '23	28,000	" " 150.34	4,209.52
"	10, '23	32,695	" " 157.11	4,545.91
"	11, '23	27,345	" " 142.99	3,420.80
"	17, '23	25,107	" " 178.76	4,019.61
"	17, '23	37,000	" " 157.76	5,837.12
"	21, '23	25,947	" " 144.97	3,281.69
"	22, '23	25,000	" " 160.71	4,017.75
"	29, '23	25,000	" " 161.73	4,043.25
Oct.	5, '23	25,000	" " 142.26	3,556.50

CONCENTRATES SHIPMENTS. McGRACKEN MT.

<u>Date</u>				<u>Net Payment</u>
Oct.	5, '23	35,089	tons at \$167.93	\$ 5,471.28
"	10, '23	26,118	" " 167.93	3,906.79
"	12, '23	25,000	" " 179.17	4,021.75
"	19, '23	25,000	" " 164.00	4,100.00
"	22, '23	27,942	" " 158.78	3,927.98
"	24, '23	25,000	" " 150.24	3,756.00
"	26, '23	26,778	" " 158.19	3,741.41
"	29, '23	25,953	" " 172.62	3,998.92
"	31, '23	26,000	" " 136.25	3,542.50
Nov.	6, '23	26,000	" " 122.49	3,184.74
"	6, '23	27,482	" " 171.30	4,197.99
"	14, '23	28,608	" " 168.25	4,833.84
"	14, '23	27,000	" " 144.88	3,911.76
"	19, '23	27,000	" " 125.27	3,382.09
"	19, '23	30,200	" " 138.39	3,618.70
"	22, '23	29,546	" " 137.89	3,531.05
"	26, '23	27,000	" " 172.07	4,645.89
"	30, '23	28,182	" " 153.64	3,804.92
Dec.	3, '23	27,000	" " 149.75	4,043.25
"	6, '23	26,496	" " 150.10	3,476.64
"	10, '23	27,000	" " 132.58	3,579.66
"	11, '23	26,421	" " 182.83	4,347.67
"	15, '23	27,000	" " 129.75	3,503.25
"	21, '23	25,265	" " 171.44	3,849.10
"	22, '23	27,000	" " 133.86	3,614.22
"	26, '23	22,107	" " 150.51	2,859.75
"	27, '23	27,000	" " 120.62	3,256.74
Jan.	1, '24	27,000	" " 112.10	3,026.70
"	7, '24	32,298	" " 149.56	4,227.94
"	8, '24	26,123	" " 147.87	3,358.81
"	17, '24	24,303	" " 131.25	2,715.31
"	19, '24	27,000	" " 117.81	4,358.97
"	22, '24	28,902	" " 108.17	2,663.75
"	24, '24	32,168	" " 95.90	2,586.75
"	28, '24	30,776	" " 130.22	3,434.27
Feb.	6, '24	32,351	" " 125.91	3,473.91
Apr.	14, '24	26,350	" " 85.63	2,256.08
May	12, '24	27,500	" " 93.91	2,577.02
"	26, '24	31,600	" " 82.14	2,594.62
"	31, '24	28,100	" " 113.74	3,196.09
June	3, '24	26,950	" " 111.61	2,559.23
"	6, '24	29,700	" " 108.70	3,228.39
"	23, '24	33,300	" " 140.75	4,687.30
July	5, '24	26,450	" " 139.16	5,072.38
"	11, '24	32,560	" " 158.24	5,152.29
"	18, '24	33,300	" " 148.36	4,940.50
"	25, '24	32,400	" " 151.58	4,911.19
Mar.	9, '24	27,000	" " 87.92	2,373.84
Total		3,078,224	tons	Total Value \$460,518.78

Above listed shipments are taken from smelter settlement sheets

NOTES ON McCracken Mountain Lead-Silver Deposits

The Griffith holdings on McCracken Mountain, Mohave County, Owens Mining District, Arizona, consists of 4 patented and 15 unpatented quartz mining claims.

This property is 43 miles southeast of Yucca, on good dirt road. Yucca is 25 miles southwest of Kingman, on pavement.

These mining claims have a total of over 9000 feet of tunnels and drifts; one 600 foot shaft and several smaller ones; and over 1500 feet of open cut vein exposures. Two separate vein systems with attendant feeder veins strike for $1\frac{1}{2}$ miles through the property in a northwesterly-southeasterly direction. The width of said main veins vary from 6 to 30 feet. The present known depth of said veins is over 750 feet, and show no diminution in quality or quantity. Vein material, besides gold, silver, zinc and lead, consist of: (taken from raw ore smelter settlement sheets) Insol. 33. to 52.%; Silica 26. to 52%; Iron 2.0 to 4.0%; Lime 10.0 to 22.0%; Zn 0.3 to 5.5%; Sulphur 0.4 to 1.7%; Alumina 0.7 to 1.8%; As 0.2%; Sb 0.17 to 0.35%.

On the GALENA claim a shaft has just been sunk 25 feet on a 6 to 18 inch wide 50% galena streak carrying 5 to 12 oz silver in a 3 foot vein. As it is improving in quantity and quality with depth, it should be sunk 25 to 50 feet deeper, and the vein then drifted upon and stoped where practical. 150 feet east of the shaft the same vein is exposed by open cut, and shows a commercial grade of mill ore. 250 feet west of said shaft the same vein is exposed by several open cuts showing good mill grade of lead and silver.

On the west end of the SOUTH OTSEGO claim the Galena vein and the Otsego patented vein unite, and continue united through the 1500 feet length of said SOUTH OTSEGO. Mill grade lead and silver ores are exposed thereon in open cuts and short shafts.

The Otsego patented claim is surrounded on all sides by the Griffith holdings, and is the only mining property on McCracken Mountain that is not included in the Griffith group. If desired, this claim can be leased or purchased.

The extreme north end of the SENATOR patented claim exposes the "Palace Chamber", 50 feet wide, 100 feet long, and nearly 50 feet deep, from which was taken silver ore (all lead ore was discarded due to pan-amalgamation recovery) of the net return value of \$4,000,000.00, as so reported by accredited mining engineers. Twenty feet inside the south portal of the upper tunnel (next under the Palace Chamber) was recently sampled and assayed: NW 6 feet wide, Silver 9.96 oz.; Lead 4.91%; FW 3 feet wide; Silver 17.76 oz.; Lead 19.98%.

About 100 feet below the "Palace Chamber" a 700 foot drift was excavated for the sole purpose of stoping up to the above mentioned upper tunnel. This operation yielded 7,000 tons of concentrates from which a net return of over

\$460,000.00 was received in a little over one year of operations. No exploratory, winze, cross-cutting or other development work on said claim has since been done. There is no question but what this ore enrichment or ore chimney goes on down below the above mentioned lower drift level. Many thousands of tons of valuable ore remains above said two levels in pillars, hanging and foot walls, and also in marginal ground. It is impossible to estimate the value or tonnage of the ore under said lower tunnel without some exploratory work, other than to admit that a tunnel never stopped an ore chimney from going down. The south 750 feet of this claim and vein is entirely virgin ground. At the extreme south end of same an easement can be obtained through a raise on the north end of the Otsego which can be used as a shaft near this vein system giving 2206 feet of backs to start north (750 feet) on. An examination will show good reason to expect high grade vein matter along the entire south half of the Senator, due to vein junctures, exposures, etc.

The ALTA claim seems to be divided into three parts; the south 400 feet extends under the "Palace Chamber" and contains a part of the lower tunnel above mentioned; the middle 600 feet or more is virgin ground with strong silver and lead showings; the north 500 feet or less is partly stoped from grass roots to the Blacksmith tunnel level, by or from said Blacksmith tunnel and the Bateman tunnel, with several thousand tons of mill grade and better ore left in the many pillars, and side walls - hanging and foot. Under the Blacksmith tunnel level the Alta is almost entirely virgin ground.

The PEABODY patented claim has a reputation of yielding several net millions of dollars from its Blacksmith tunnel and its 100 foot and 250 foot levels. The Bateman tunnel and the Atlanta patented claim to the east, contributed much to the mill (100 ton) on said Peabody claim. A shaft to depth of 600 feet was sunk on the north end of this claim, having a 100 foot level 1350 feet long, and a 250 foot level 600 feet long, on the vein. The balance of the depth was carried at the same uniform 22 degrees easterly dip from vertical. At the 300 foot depth the vein completely left the shaft by dipping further to the east. It never returned and was never attempted to be reached by cross-cut, core drill or otherwise. At the 500 foot level copper and gold were encountered in an entirely different vein structure. Starting at \$2. to \$4. gold (\$20. oz value) and 2% copper, and so continued, except getting better as went down to the 600 foot level, where an informed the gold was \$6. to \$10. (\$20. oz) and copper up to 5%. Am advised by miners recently examining the shaft that it is still in good shape all the way down for exploratory work, but would need some repair work before putting it on heavy production. Am likewise advised there is much excellent mill grade ore on both the 100 foot and 250 foot levels; also stored in several of the chutes which were not pulled. There is over 5,000 tons of 10% to 15% lead and 5 to 10 oz. silver ore above ground on this claim that can be salvaged. Although the Blacksmith tunnel cannot be used as a haulage tunnel any more, the south end of same has good mill grade ore, and also much false foot wall material quite high in lead content (purposely left because it fouled silver amalgamation) may be drawn by way of the raise from the 100 foot level to the Bateman tunnel which now passes 65 to 75 feet south of the south end of the Blacksmith tunnel.

The ATLANTA patented claim has the reputation of being a good producer. All work was done between the entrance level and grass roots. The ore was mostly delivered to the Peabody mill via 1/4 mile aerial two-way tram. The 1,000 foot drift starting on the Swastika No. 3 now cuts this vein about 250 feet under the present workings. Also there is a parallel silver vein 3 1/2 feet wide averaging \$50.00 per ton in silver and some lead, in the center of which is a narrow 300 to 500 oz. silver vein. The northerly 600 feet of this Atlanta claim exposes a strong lead and silver vein, unexplored except by several open cuts. Have two assays therefrom as follows: No. 1. Silver 1.2 oz; Lead 15.5%. No. 2. Silver 14.0 oz; Lead 21.3%.

The SWASTIKA No. 3 claim has the stone house (camp) and the entrance to the tunnel under the Swastika No. 1, the Atlanta Extension, and into the Atlanta patented claim.

In the SWASTIKA No. 1 and about 300 feet northerly from the portal of tunnel above mentioned, a sample of a started stope 12 feet along the vein, 2 feet wide, with 150 feet of backs was recently taken. Assay result: 3.86 oz. Silver; 24.5% Lead. (at 90¢ & 15¢) value \$76.97. In the same drift but further north and near the No. 3 ore chute therein, this vein was recently sampled up a man-way as far as the ladder would reach. The assay was: .04 oz Gold; 2.5 oz Silver; 22.1% Lead. Total value \$65.53. Continuing northerly in said tunnel about 150 feet and in a cross-cut about 15 feet east of the tunnel's hanging wall, is a vein exposed about 3 feet wide with lead and silver showings. No attempt has been made to sample or assay this new parallel vein until further exploratory work is undertaken.

The following miscellaneous mine assays grouped under the proper mine headings are mostly known to be correct. A few of those taken from certain mining engineer's reports have not been rechecked, but are believed to be correct.

SOUTH OTSEGO: Recently an old report dated 7-15-1920, written by Walter W. Wishon, E.M., was produced which reads as follows:

"At a point not far from the showing in the south end of the Otsego claim, on a 10 foot wide vein at the surface, there is an old 50 or 60 foot vertical shaft. Has no ladder. Work shows as done long ago."---

Two assays from the dump ran:

"No. 1. Silver 17.56 oz; Lead 64.69%.
No. 2. Silver 72.80 oz; Lead 38.85%."

Have had no opportunity to verify or reject.

SENATOR: A, or Lower Tunnel has over 600 feet in good values, 400 feet of which are south and 200 feet north of Alta south end line; has total of 1300 feet in length. About 600 feet north and 700 feet south of Alta south line, is about 800 feet from Lower tunnel to south end line of Senator. North

adit to cave-in about 680 feet, then S. 20° E. 575 feet to south portal. A small shaft is 400 feet north of south line of Senator. An open cut is 100 feet north of said shaft. About 100 feet north of above open cut the vein stands over 10 feet above the surface, part is black in color and part is a dull red, both very light in weight. The black assays 7.6 oz silver; the red 6.02 oz silver. Near the south end of Senator and on the surface, a leaser shipped 25 tons. Assay - 5.95 oz Silver, 14.9% Lead. Assay value \$61.97 per ton. Spent about 5 days getting the 25 tons.

ALTA: The Green Monster, a tributary vein south of dump in canyon 1000 feet above the Bateman tunnel, and south of the north portal of the "lower tunnel" has a surface sample assay of 13.4 oz Silver; 8.1% Lead.

The Bateman tunnel is 850 to 900 feet long. Strike N. 25 or 30° W. Is in Northeast corner of the Alta and 100 feet below the "Lower tunnel" level. Entrance about 200 feet north of entrance to "Lower tunnel". This tunnel is pretty well stoped to grass roots until chute No. 10 is passed, which is about 325 feet from the end.

PEABODY: Blacksmith tunnel, level with 600 foot shaft collar, starts 125 feet south of shaft. Runs S. 20° E 904 feet south of entrance. Near south end a HW. sample was taken. Assay 2.24 oz Silver; 24.95% Lead. The 600 foot shaft is on an incline of 22° east of vertical. Has a

100 foot level running south	1192 feet,	north	165 feet.
250 "	" "	" "	490 " " 125 "
400 "	" "	" "	180 " " 15 "
550 "	" "	" "	50 " " with 60 ft. cross-out.

100 foot level runs 150 feet past the Blacksmith tunnel and 375 feet past the portal of the Bateman tunnel. 500 feet south of shaft is a small cave-in (an ore chute smashed); 650 feet south of shaft is a raise not stoped; 1000 feet south of shaft is another raise not stoped, should be good to the surface, and is about 75 feet south of the end of Blacksmith tunnel (which is good). 400 feet south of shaft shows 1 foot of solid galena and 6 feet additional of medium grade. A few assays show:

(B) 96. Pillar 6.6 ft. wide. Silver 14.25 oz; Lead 7.3%.
 (S) Sec. vein
 in XC B, 1648. 9.5 ft wide. Zinc 20%
 No. 1647. 7.5 ft wide. Zinc 23.5%
 No. 1648. 10 feet wide " 23.8%

250 foot level - Assays as follows:

No. 11027. 5.0 ft. wide. Gold .07 oz; Ag 1.0 oz;
 1.4% Pb; 13.6% Zn is 450 ft. So. of shaft.

No. 11028. HW 4.5' wide. Gold .02 oz; Ag 6.0 oz;
 Lead 19.22%; Zn 8.4%. Is 280' S. shaft.

- A. level (north end Alta above Bateman tunnel) No's 104 to 136. Average 15 oz. Silver. Lead not reported.
- B. level (100 feet above Blacksmith tunnel)
Assays No's 85 to 103. 10 to 20 feet apart for 165 feet.
average width 6 to 7 feet. Average silver 20 to 41 oz.
- C. level (50 feet above Blacksmith tunnel)
Assays No's 60 to 76. Average width 5 feet. Silver average 6 to 31 oz.

Blacksmith tunnel (between C. & D.) level.
Assays No's 39 to 59. Average 5 feet wide. Average 15 oz. Silver.
Low 6.5 oz, high 30.6 oz.
No. 27. 14 feet wide. 30.6 oz. Silver.

- D. level (50 feet below the Blacksmith tunnel)
38 samples taken over 308 feet. Numbered 1 to 38.
No. 10. 5 ft W. 33.4 oz. Silver (105' N of 308' ??)
No. 36. 4½ " " 47.6 " " (288' N of 308')
No. 37. 3 " " 21.4 " " (298' N of 308')

Above level mostly sbped, excepting side walls & pillar material.

- E. level (100' level in the 600' shaft.)
Assays Nos 231 to 261, beginning 517 feet south of shaft and running north. Average over 5% lead and 14 oz Silver.

No.	Ft	W.	description	% Lead	Oz. Silver	% Zinc
233	5.		493' so. of shaft	5.6	31.2	
242	4.5		330' " " "	8.6	21.3	
247	4.		275' " " "	6.0	22.2	
256	3.		139' " " "	5.0	20.6	
253	6.		210' " " "	6.3	14.8	
260	25.		34' " " "	7.0	27.6	
261	4.5		At so. side	3.0	24.7	
265	4.5		S. side shaft 15' below 100'	1.10.6	40.2	
269	3.5		across short drift 18' so. of air shaft	8.6	27.5	
270	3.		across FW galena streak 26' so. of whim shaft-	8.4	8.1	
271	4.		ac. face of short drift in FW galena streak back of #253 on 100' level-	16.7	2.2	
F. level			(250' level in the 600' shaft)			
273	3.5		ac. back 10' no. of 272 which is ac. back on N. side so. winse coming down from 100' level- - - - -	4.0	21.8	
274	13.0		ac. back 10' No. #273.	11.6	13.5	
276	3.5		" " 19' No. #274	6.1	15.5	
1280	4.6		No description - - - - -			
1281	7.0		" "			19.6
1284	7.0		" "	6.1	10.5	21.9
1285	8.0		" "	8.9	21.3	4.9

Between the 300' and 350' depth in the 600' shaft the vein leaves the shaft by dipping to the east and does not return, neither has it been contacted by cross-cut or otherwise.

THE MILL

The mill is located on the NW/4 of NE/4, Sec. 16, T 13 N, R 13 W. a school section. Lies along and some of it in the Big Sandy River. Is held by successive 5 year leases from the State. All property placed thereon has been properly registered and approved by the State as to kind and value. Plenty of water for a 1,500 ton mill is available.

The mill is test rated at 60 tons capacity. Will be comparatively easy and inexpensive to increase it to 100 tons. Recovery rating is 85 to 90 per cent of lead and 90 per cent of silver. Mill includes the following:

1. Adequate concrete reservoir, filled by pump and 250' of 2" pipe line from the river. Sufficiently high to service the entire mill by gravity.
 2. 20-ton ore bin. Frame but iron lined. Steel grizzly on top with 6" separations.
 3. 200' of 2" pipe to all parts of mill.
 4. F. & C. jaw crusher 10x7. Gas engine.
 5. 32' belt conveyor. 65' of 20" troughing belt, rolls and steel frame.
 6. Wheeling jaw crusher 9x24. Allis Chalmers gas engine.
 7. 25' belting and belt conveyor to Nos 8 & 9.
 8. Vibrating screen - 10 mesh.
 9. Steel ore bin.
 10. 40' conveyor belting with steel buckets attached. 20' steel bucket conveyor. Gas engine.
 11. Steel ore bin, automatic ore feeder and conveyor to ball mill.
 12. Hardinge conical ball mill No. 1054. New liners. Drive shaft, gears, pulleys and heavy power belting to 150 HP Waukesha gas engine.
 13. Dorr type 14' rake classifier.
 14. Sizing screens - 4 deck separations, and gas engine.
 15. 5 tons new forged steel grinding balls. Miscellaneous pulleys, shafts and belts.
 16. 4 new Dunham concentrating tables, shafts, pulleys and belts.
 17. 5 small gas engines for misc. duty.
 18. 12'x16' frame, iron & Aluminum assay office and assay equipment.
- Misc: Installation costs, lumber, steel, cement, etc.
Labor costs.
Experimental work and equipment.

Test runs were made on 10% lead heads, believing it as low grade as in any way necessary to keep the mill fully supplied. From careful sampling and assays it was found that 83% lead concentrates could be produced, but the disadvantages were: a large middling recovery which had to be again run (separately or with the raw ore), and a high lead loss (1, to 1.5%) in the

tailings. A 74 to 75% lead concentrate was found to materially overcome the disadvantages encountered in getting into the higher concentrates. By reducing the concentrates to about 54% lead much smaller volume of middlings of much less value were obtained, and the tailings could be held down to 0.5 to 0.7% of 1.0%. To find the most profitable standard to use, three arbitrary runs were made, one yielding a 54.5% lead concentrate, one a 62% lead concentrate, and one a 72% lead concentrate. One set was personally taken to the U. S. Smelting, Refining and Milling Co. of Salt Lake City, and the other sent to the A.S. & R. Co., El Paso. Both buyers of McCracken Mt. lead processed raw ore. With the benefit of the respective staffs, and most appreciated co-operation, also using certain assumptions, such as: a 10% lead and a 35% lead recovery (lower than actual); a \$2.50 per ton milling cost (on 100 ton basis); hauling from mines to mill (9.5 miles) \$1.00 per ton; lining cost \$10.00 per ton (which included necessary development as work progressed); price of lead was then 13.5 cents; also the figures of- Gold 0.10 oz, silver 11.3 oz as actually shown in the 54.5% concentrate, were used for all three. Accurate answers were soon arrived at.

With above figures in mind it was, due to escalator freight rates, quickly discovered that the 62% concentrates were the least profitable. Then it was found that due to the same freight rates the net profits on the 72% concentrates were so little more that it was more than eaten up by the increased middling load necessary to carry, as well as the increase in tailings value loss. As both smelters agreed substantially with these conclusions, there is no question now but that approximately 54% lead concentrates are the most profitable, unless a cheaper haul can be contracted for via truck freight lines dealing in weights and not values, or the property can grow into smelter proportions.

Translating the above figures submitted by the smelters, except using the present 15¢ lead price, with all deductions made by the smelters, instead of the 13½¢ price then prevailing-

On a 60 tons per day raw ore basis we have:
 9.36 tons of concentrates per day with a
 net smelter return of \$113.71 per ton (9.36
 x \$118.71) - - - - - \$1111.125
 60 tons raw ore per day mined and hauled and
 milled at \$14.00 per ton (50¢ per ton added) - - 840.00
 A net profit per day of - - - - - \$ 270.00

On a 100 tons per day raw ore basis we have:
 15.6 tons of concentrates per day, net smelter
 returns \$118.71 per ton (15.6x\$118.71) - - - \$1851.876
 100 tons raw ore per day mined, milled and hauled
 at \$13.50 per ton (100x\$13.50) - - - - - 1350.00
 A net profit per day of - - - - - \$ 500.00

It is an established fact that every dollar invested in efficient machinery, equipment, development and exploratory work will daily and materially reduce the above stated excessive mining and milling costs per ton. As the mill capacity is increased the cost of milling in proper ratio decreases.

The calculations here made are based upon mill heads of an assay value of \$30.00 to \$35.00 per ton. Many thousands of tons of ore can now be placed in that class without exploration and very little development work. The \$10.00 mining charge above used will carry such development. If the mines are mechanized and the mill capacity increased to take care of the output, \$15.00 ore can soon be handled with equal profit per ton on an almost unlimited daily tonnage basis.

Long and abundant stopes are a natural on this mountain, with great quantities of ore to be pulled therefrom at a cost of 50¢ to 75¢ per ton - rather than the \$10.00 per ton used above.

W. H. Munds, M. E. in July 1929 stated that he operated the 100-ton mill then on the Peabody in the early 1920s, and he then supervised the following recoveries from McCracken Mt. ores:

4,255.7 tons of concentrates shipped, averaging per ton
 18.0 oz. of silver and 49.2% of lead. Total
 shipped 572,750 oz. silver & 5,310,000 lbs. of lead.
 Extraction: Silver 74.8%; lead 76.3%.
 Value of concentrates shipped \$781,383.60
 Production cost \$547,800.00
 Tons of ore milled 91,300
 Average heads 9.8 oz. silver; 2.9% Lead
 Total heads, 900,175 oz. silver
 5,510,000 lbs lead.
 Property cost \$408,000.00. Profit \$233,583.60
 18.2% paid per year on investment.

John L. Whitney, M.E. An operator on McCracken Mt. in 1913, when making a report on the advantages of extending the 100 foot level under the Peabody claim south through the mountain under the Alta and Senator wrote that there would be over 5,000,000 tons of commercial vein matter above said proposed tunnel and that 60% of the outcrops show payable values, also that 1,500,000 tons of ore above this level could be worked by glory hole methods and delivered to the mill for 60¢ per ton. That the mill could concentrate 80% of the lead and 75% of the silver at \$2.00 per ton, and with proper equipment this could later be reduced to a grand total of \$3.00 per ton on ore mined.

George Alexander Camphuis, M.E., in 1930 reported that he found ore blocked out much in excess of 100,000 tons ready to mine and mill at an immediate source of profit of \$500,000.00 to \$1,500,000.00. Further on in mentioning his examination of the 600 foot shaft on the Peabody he stated "from the 250 ft level up, there is over 100,000 tons of valuable ore ready to break down (stope) and mill or ship raw." Also that "the 600 foot level has interesting 10% copper lenses on the foot wall side of said shaft, and that he is confident that at further depth the shaft will show much larger deposits of high grade."

It has been suggested that the best and most economical way to develop the mountain would be to drive a two-way trackless drift or cross-cut in a northeasterly direction, beginning about 300 feet below and 200 to 300 feet

south of the south portal of the lower tunnel on the Senator, and ending (breaking out) in the deep gulch east of the Atlanta claim workings. A total 1000 to 1200 feet. This done with "Gismos" and underground conditioned trucks would be very fast and would cross-cut all mineralization on the mountain at 600 feet depth. Stations could be cut at proper vein crossings for drifting and stoping both north and south. When completed a central shaft could be selected for sinking and working the mineralization below for many years.

It has been further suggested that the property justifies a 500-ton mill on the southwest side or corner of the mountain, to be increased to a 1,000 ton and more when justified by development work, as water geology seems to assure that an ample water supply can be developed on this western side. Both natural gas from Texas and electricity from Parker Dam pass within approximately $3\frac{1}{2}$ miles of a mill site. Proper industrial prices would prevail for this gas and electricity.

Respectfully submitted,

Ben F. Griffith
P. O. Box 74
Yucca, Arizona

The foregoing report was made by us from personal observations while on the property during the week of Feb. 15, 1937.

Rep. engineers

H. D. Clark
H. D. Clark
C. C. Stearns
C. C. Stearns

Dated: Feb. 26, 1937.

SETTLEMENT BY SMELTERS
OF
RAW ORE SHIPMENTS FROM MCCrackEN Mt. MINES

Date	Lot	Dry wt. lbs	Lead		Silver Oz.	Net amount paid before deduct- ing freight.
			Price	%		
6-24-48	172947	81,073	17.50	17.50	0.90	\$ 1,140.70
8-23-48	173061	80,775	19.50	22.30	0.90	2,283.35
8-26-48	24388	90,965	19.50	19.80	0.90	2,200.44
9-22-48	XXXXX S.F.	73,478	19.50	17.90	- --	1,540.10
10-27-48	84070	102,606	19.50	16.80	3.90	2,055.75
11-23-48	81323	109,480	21.50	14.20	1.35	1,854.59
12-16-48	86590	58,822	21.50	14.55	1.90	1,048.21
10-21-49	Truck	18,374	14.93	40.40	15.00	872.03
1-12-49	172900	74,267	21.50	23.98	1.60	2,584.12
3- 4-49	9828A	90,566	21.50	19.00	2.90	2,568.45
3-31- 49	82524	88,628	18.00	10.60	3.00	724.53
4-11-49	172082	106,142	16.67	13.50	4.60	1,247.70
3-31-49	Truck	11,000	?	17.00	2.60	147.73
11-22-48	"	12,040	?	12.00	4.00	133.95
12-10-48	"	13,484	?	16.50	4.00	255.50
12-13-48	"	9,880	?	17.30	3.40	197.75
12-20-48	"	10,780	?	21.20	3.00	285.67
1- 2-49	"	8,036	?	33.00	1.50	371.26
7- 1-50	F."	6,277	?	45.60	9.90	204.19
9- 5-50	B."	3,575	?	23.50	181.70	332.47
10-30-50	B "	4,030	?	25.60	46.90	165.65
9- 8-50	B "	3,574	?	24.60	190.10	349.71
1-25-51	B Car	28,492	17.00	30.50	1.80	1,018.73
7-19-51	2013	90,196	17.00	23.70	11.30	3,455.49
2-21-52	317	50,020	19.00	14.90	6.00	953.88
4-28-52	1278	115,826	19.00	21.20	1.10	4,843.88
						<u>\$ 32,835.83</u>

CONCENTRATE SHIPMENTS
McCRACKEN PROPERTIES

<u>Date</u>			<u>Net Payments</u>
July 19, '22	25,788 tons at	289.32	\$ 6,865.59
Aug. 12, '22	28,259 " "	171.90	4,335.97
Dec. 28, '22	33,173 " "	137.90	3,994.68
Jan. 1, '23	28,173 " "	160.36	3,975.93
Jan. 6, '23	27,000 " "	87.82	2,731.14
Jan. 10, '23	27,000 " "	107.98	2,915.46
Feb. 6, '23	31,000 " "	164.65	5,466.38
Feb. 26, '23	26,400 " "	168.89	4,458.69
Mar. 13, '23	35,099 " "	192.03	6,740.06
Mar. 20, '23	28,000 " "	200.00	5,600.00
Mar. 28, '23	27,400 " "	222.82	6,105.76
Apr. 6, '23	24,000 " "	297.98	7,151.52
Apr. 16, '23	24,800 " "	220.32	5,463.94
Apr. 19, '23	31,500 " "	194.56	6,128.64
Apr. 23, '23	21,800 " "	183.04	3,990.27
May 5, '23	26,400 " "	194.43	5,132.95
May 10, '23	27,500 " "	205.66	5,655.65
May 15, '23	24,000 " "	207.61	4,982.64
May 22, '23	23,400 " "	238.11	5,571.77
May 24, '23	31,508 " "	194.18	5,552.75
May 25, '23	32,264 " "	206.63	6,074.01
May 28, '23	24,780 " "	230.65	5,715.50
June 2, '23	29,750 " "	166.60	4,956.35
June 4, '23	24,406 " "	238.58	5,370.98
June 5, '23	26,057 " "	200.33	4,744.79
June 9, '23	25,500 " "	158.05	4,030.27
June 10, '23	34,024 " "	96.83	2,780.71
June 15, '23	25,500 " "	159.07	4,056.28
June 20, '23	25,500 " "	142.23	3,526.86
June 20, '23	27,235 " "	165.29	4,027.61
June 20, '23	31,241 " "	171.62	4,814.08
June 26, '23	27,216 " "	152.82	3,682.99
June 26, '23	26,340 " "	151.98	4,003.15
June 29, '23	25,098 " "	161.68	3,589.23
July 2, '23	26,220 " "	149.24	3,913.07
July 9, '23	26,100 " "	148.65	3,879.76
July 10, '23	25,866 " "	146.10	3,309.64
July 13, '23	28,771 " "	152.10	3,872.58
July 14, '23	31,680 " "	146.17	4,630.66
July 17, '23	26,665 " "	148.49	3,490.07
July 23, '23	29,920 " "	164.19	4,912.66
July 28, '23	29,971 " "	142.47	3,734.67
July 30, '23	31,080 " "	140.57	4,368.91
Aug. 7, '23	34,114 " "	157.13	4,762.13
Aug. 11, '23	29,574 " "	166.00	4,392.19
Aug. 13, '23	37,100 " "	169.59	6,291.78
Aug. 16, '23	25,558 " "	148.56	3,472.06
Aug. 20, '23	32,400 " "	144.80	4,691.52
Aug. 21, '23	25,457 " "	168.54	3,821.72
Aug. 25, '23	27,600 " "	132.68	3,661.96
Aug. 31, '23	28,000 " "	173.54	4,859.12
Sept. 1, '23	39,575 " "	175.11	6,227.18
" 6, '23	28,000 " "	150.34	4,209.52
" 10, '23	32,695 " "	157.11	4,545.91
" 11, '23	27,345 " "	142.99	3,420.80
" 17, '23	25,107 " "	178.76	4,019.61
" 17, '23	37,000 " "	157.76	5,837.12
" 21, '23	25,947 " "	144.97	3,281.69
" 22, '23	25,000 " "	160.71	4,017.75
" 29, '23	25,000 " "	161.73	4,043.25
Oct. 5, '23	25,000 " "	142.26	3,556.50

CONCENTRATES SHIPMENTS. McCLACKEN MT.

<u>Date</u>				<u>Net Payment</u>
		35.089 tons at \$167.93		\$ 5,471.28
Oct.	5, '23	26.118 " "	167.93	3,906.79
"	10, '23	25.000 " "	179.17	4,021.75
"	12, '23	25.000 " "	164.00	4,100.00
"	19, '23	27.942 " "	158.78	3,927.98
"	22, '23	25.000 " "	150.24	3,756.00
"	24, '23	26.778 " "	158.19	3,741.41
"	26, '23	25.953 " "	172.62	3,998.92
"	29, '23	26.000 " "	136.25	3,542.50
"	31, '23	26.000 " "	122.49	3,184.74
Nov.	6, '23	27.482 " "	171.30	4,197.99
"	6, '23	28.608 " "	168.25	4,283.84
"	14, '23	27.000 " "	144.88	3,911.76
"	14, '23	27.000 " "	123.27	3,382.09
"	19, '23	30.200 " "	138.39	3,618.70
"	19, '23	29.546 " "	137.89	3,531.05
"	22, '23	27.000 " "	172.07	4,645.89
"	26, '23	28.182 " "	153.64	3,804.92
"	30, '23	27.000 " "	149.75	4,043.25
Dec.	3, '23	26.496 " "	150.10	3,476.64
"	6, '23	27.000 " "	132.58	3,579.66
"	10, '23	26.421 " "	182.83	4,347.67
"	11, '23	27.000 " "	129.75	3,503.25
"	15, '23	25.265 " "	171.44	3,849.10
"	21, '23	27.000 " "	133.86	3,614.22
"	22, '23	22.107 " "	150.51	2,859.75
"	26, '23	27.000 " "	120.62	3,256.74
"	27, '23	27.000 " "	112.10	3,026.70
Jan.	1, '24	32.298 " "	149.56	4,227.94
"	7, '24	26.123 " "	147.87	3,358.81
"	8, '24	24.303 " "	131.25	2,715.31
"	17, '24	27.000 " "	117.81	4,358.97
"	19, '24	28.902 " "	108.17	2,663.75
"	22, '24	32.168 " "	95.90	2,586.75
"	24, '24	30.776 " "	130.22	3,434.27
"	28, '24	32.351 " "	125.91	3,473.91
Feb.	6, '24	26.350 " "	85.63	2,256.08
Apr.	14, '24	27.500 " "	93.91	2,577.02
May	12, '24	31.600 " "	82.14	2,594.62
"	26, '24	28.100 " "	113.74	3,196.09
"	31, '24	26.950 " "	111.61	2,559.23
June	3, '24	29.700 " "	108.70	3,228.39
"	6, '24	33.300 " "	140.75	4,687.30
"	23, '24	26.450 " "	139.16	5,072.38
July	5, '24	32.560 " "	158.24	5,152.29
"	11, '24	33.300 " "	148.36	4,940.50
"	18, '24	32.400 " "	151.58	4,911.19
"	25, '24	27.000 " "	87.92	2,373.84
Mar.	9, '24			
Total		3,078,224 tons		Total Value \$460,518.78

Above listed shipments are taken from smelter settlement sheets